

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: January 16, 2003, 02:39:24 ; Search time 79 Seconds  
(without alignments)  
12643.623 Million cell updates/sec

Title: US-09-817-198A-1

Perfect score: 3257

Sequence: 1 tgccgctgccccccgcag.....aaaaaaaaaaaaaaaaaaaa 3257

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued\_Patents\_NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	156.6	4.8	1340	2	US-08-824-873-2
2	156.6	4.8	1340	3	US-09-198-184-2
3	156	4.8	925	2	US-08-916-901-4
4	156	4.8	925	4	US-09-154-602-4
5	136.2	4.2	875	4	US-09-075-454-10
6	136.2	4.2	2612	4	US-09-484-970B-142
7	120.6	3.7	847	2	US-08-773-423-4
8	113	3.5	639	4	US-09-399-913-66
9	110	3.4	970	3	US-08-888-077A-28
10	91.2	2.8	820	3	US-08-741-411-6
11	85.8	2.6	7218	1	US-08-232-463-14
12	80.6	2.5	890	3	US-08-741-411-4
13	80	2.5	1172	4	US-09-075-454-8
14	80	2.5	1255	2	US-08-766-551-6
15	80	2.5	1533	4	US-09-075-454-11
16	79	2.4	848	3	US-08-741-411-2
17	77	2.4	1749	4	US-09-149-476-54
18	75.6	2.3	1407	4	US-09-493-914-1
19	73.6	2.3	803	4	US-09-075-454-13
20	71.6	2.2	591	2	US-09-156-979-1
21	71.6	2.2	591	4	US-09-387-341-68
22	67.2	2.1	702	3	US-08-842-976-2
23	67.2	2.1	702	3	US-09-213-397-2
24	67.2	2.1	702	3	US-09-416-489-2
25	66.2	2.0	331	4	US-09-325-932A-33
26	64.8	2.0	615	1	US-08-247-946A-5
27	64.8	2.0	615	5	PCT-US95-06420-5

28	61.2	1.9	1058	3	US-09-156-807-1	Sequence 1, Appli
29	60.6	1.9	1098	2	US-08-948-616-6	Sequence 6, Appli
30	60.6	1.9	1098	2	US-09-193-510-6	Sequence 6, Appli
31	60.6	1.9	1098	4	US-09-368-402-6	Sequence 6, Appli
32	60.4	1.9	1284	2	US-09-161-015-1	Sequence 1, Appli
33	60.4	1.9	1284	4	US-09-387-341-150	Sequence 150, App
34	59	1.8	7218	1	US-08-232-463-14	Sequence 14, Appli
35	57.4	1.8	2989	6	5378464-1	Patent No. 5378464
36	54.8	1.7	779	2	US-08-766-551-4	Sequence 4, Appli
37	54.6	1.7	1334	2	US-08-916-901-2	Sequence 2, Appli
38	54.6	1.7	1334	4	US-09-154-602-2	Sequence 2, Appli
39	53.6	1.6	1175	2	US-08-773-423-6	Sequence 6, Appli
40	51.6	1.6	624	4	US-09-415-522-1	Sequence 1, Appli
41	50.2	1.5	227	4	US-09-397-787-119	Sequence 119, App
42	50.2	1.5	1166	5	PCT-US96-12129B-1	Sequence 1, Appli
43	50	1.5	1315	4	US-09-721-822A-10	Sequence 10, Appli
44	49.8	1.5	1641	1	US-08-300-903A-8	Sequence 8, Appli
45	49.8	1.5	1872	4	US-09-801-052-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-08-824-873-2  
; Sequence 2, Application US/08824873  
; Patent No. 5843717  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Guegler, Karl  
; TITLE OF INVENTION: NOVEL RAB PROTEIN  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/824,873  
; FILING DATE: Filed Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0240 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1340 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: PANCNOT04  
; CLONE: 738957  
US-08-824-873-2

Query Match 4.8%; Score 156.6; DB 2;  
Best Local Similarity 59.0%; Pred. No. 7.8e-30;  
Matches 305; Conservative 0; Mismatches 209; Indels 3; Gaps 2;



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; SOFTWARE: FastSeq for Windows Version 2.0
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,901
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 925 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LIVRUT04
; CLONE: 2514506
; US-08-916-901-4

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[illegible]

RESULT 4  
US-09-154-602-4  
; Sequence 4, Application US/09154602  
; Patent No. 6300472  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti

```

; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/154,602
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/916,901
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 925 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LIVRTUT04
; CLONE: 2514506
; US-09-154-602-4

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Query Match	4.8%;	Score 156;	DB 4;	Length 925;
Best Local Similarity	56.7%;	Pred. No. 9.4e-30;		
Matches 288;	Conservative 0;	Mismatches 220;	Indels 0;	Gaps
QY	36	GCCCCAGTCATGCGGAAGCAGTACGATGCTGCTTCGGGTGCTGCTGATCGGGGACTCC	95	
Db	57	GCCGCGCCATGAACCCGATATGACTACCTCTTTTAAGCTGCTTTGATGGCGACTCA	116	
QY	96	GGGGTGGCAAGACCTGCCCTGCTGTGCCGCTTCACCGACAACGAGTTCCTCACTCCTCGCAC	155	
Db	117	GGCGTGGCAAGTCATGCGCTGCTCCCTGCGGTTTGCTGATGACACGTACACAGAGAGCTAC	176	
QY	156	ATCTCCACCATCGGTGTGACTTTAAGATGAAGACCATAGAGTGACACGGCATCAAGTG	215	
Db	177	ATCAGACCATCGGGTGGACTTCAAGATCCGAACCATCGAGTGATGGCAAACTATC	236	
QY	216	CGGATACAGATCTGGGACACTCGAGGGCCAGGAGAGATACACAGACCATCAACAAGCAGTAC	275	
Db	237	AAACTTCAGATCTCGGGACACAGCGGGCCAGGAACGGTTCGGGACCATCACTTCCACGCTAC	296	
QY	276	TATCGGGGGCCACAGGGATATTTTGGTCTATGACATTAGCAGCGCGCTCTTACCAG	335	
Db	297	TACCGGGGGCTCATGGCATCATCGTGGTGTATGAGCTCACTGACCAGGAATCCTTACGGCC	356	
QY	336	CACATCATGAATGGGTTCAGTACGCTGGATGAGTACGCCACCAAGAGCGGCTCCAGAAGATC	395	
Db	357	AACGTGAAGCAGTGGCTGCAGGAGATTGACCGGTATGCCAGCGAGAACGTCAATAAGCTC	416	
QY	396	CTTATTGGGAATAAGGCTGNTGAGGAGCAGAAACGCCAGGTGGGAGAGACNAGGGCAG	455	
Db	417	CTGGTGGGCNAACGAAGCGACCTCACCAACGAAGGTTGTGGCAACACCAACAGCCNAAG	476	
QY	456	CAGCTGGCGAAGGAGTATGGCATGGACTTCTATGAAACAAGTGCCCTGCAACACCTCAAC	515	

Db 477 GAGTTTCAGACTCTCTGGGCATCCCTTCTTGGAGACGAGGCCCAAGAAATGCCACCAAT 536  
QY 516 ATTAAAGAGTCATTTCAGCGCTCTGACAG 543  
Db 537 GTCGAGCAGCGGTTCATGACCATGGCTG 564

RESULT 5  
US-09-075-454-10  
; Sequence 10, Application US/09075454  
; Patent No. 6391580  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Lal, Preeti  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Patterson, Chandra  
; APPLICANT: Batra, Sajeev  
; APPLICANT: Baughn, Mariah R.  
; TITLE OF INVENTION: RAS PROTEINS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/075,454  
; FILING DATE: Herewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/766,551  
; FILING DATE: DECEMBER 12, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cerrone, Michael C.  
; REGISTRATION NUMBER: 39,132  
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 875 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: UCMCL5T01  
; CLONE: 1528559  
US-09-075-454-10

Query Match 4.2%; Score 136.2; DB 4; Length 875;  
Best Local Similarity 57.5%; Pred. No. 8.6e-25;  
Matches 265; Conservative 0; Mismatches 193; Indels 3; Gaps 1;

QY 57 TACGATGTGCTGTTCCGGCTGCTGTGATCGGGGACTCCGGGTGGGCAAGACCTGGCTG 116  
Db 72 TACGACCTCACGGGAAGGTGATGCTTCTGGGAGACACAGCGCTCGGCAAAACATGTTTC 131  
QY 117 CTGTCCCGCTTCACCGACAAGAGTTCACCTCCT---CGCACATCTCCACCATCGGTGTT 173  
Db 132 CTGATCCAATTCAAAGACGGGGCCTTCTGTCCGGAACCTTCATAGCCACCGTCGGCATA 191

QY 174 GACTTTAAGATGAAGACCATAGAGGTAGAGCGCATCAAAGTCGGGATACAGATCTGGGAC 233  
Db 192 GACTTCAGGAACAAGGTGCTGACTGTGGATGGCTGAGAGTGAAGCTGCAGATCTGGGAC 251  
QY 234 ACTGAGGCGAGAGATACAGACCATACAAAGCAGTACTATCTCGGCGGCCCGGAGGG 293  
Db 252 ACCGCTGGGCGAGGACGGTTCGGAAGCGTCACCCATGCTTATTACAGAGATGCTCAGGCC 311  
QY 294 ATATTTTGTGCTATGACATTAGCAGCGAGCGCTCTTACCAGCACATCATGAAGTGGGTC 353  
Db 312 TTGCTTCTGCTGTATGACATCAACAATACTTCTTTTCGACAACATCAGGCGCTGGCTC 371  
QY 354 AGTGACGTGGATGAGTACGACACCGAGCGCTCCAGAAGATCCTTATTGGGAATAAGGCT 413  
Db 372 ACTGAGATTATGAGTATGCCAGAGGGAGCTGTGTCATCATGCTGTAGGCAACAAGGCG 431  
QY 414 GATGAGGAGCAAAACGGCAGGTGGGAAGAGAGCAGGAGGCGAGCTGCGGAGGAGTAT 473  
Db 432 GATATGAGCAGCGAAAGAGTATCCGTTCCGAAGACGGAGACCTTGGCCAGGGAGTAC 491  
QY 474 GGCATGGACTTCTATGAACAAGTCCTGCACCAACCTCAA 514  
Db 492 GGTGTTCCCTTCTGTGAGACCGACGCCAAGACTGGCATGAA 532

RESULT 6  
US-09-484-970B-142  
; Sequence 142, Application US/09484970B  
; Patent No. 6426186  
; GENERAL INFORMATION:  
; APPLICANT: Jones, Karen A.  
; APPLICANT: Volkmuth, Wayne  
; APPLICANT: Walker, Michael G.  
; TITLE OF INVENTION: BONE REMODELING GENES  
; FILE REFERENCE: PB-0014 US  
; CURRENT APPLICATION NUMBER: US/09/484,970B  
; CURRENT FILING DATE: 2000-01-18  
; NUMBER OF SEQ ID NOS: 172  
; SOFTWARE: PERL Program  
; SEQ ID NO 142  
; LENGTH: 2612  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1  
US-09-484-970B-142

Query Match 4.2%; Score 136.2; DB 4; Length 2612;  
Best Local Similarity 57.5%; Pred. No. 1.4e-24;  
Matches 265; Conservative 0; Mismatches 193; Indels 3; Gaps 1;

QY 57 TACGATGTGCTGTTCCGGCTGCTGTGATCGGGGACTCCGGGTGGGCAAGACCTGGCTG 116  
Db 91 TACGACCTCACGGGAAGGTGATGCTTCTGGGAGACACAGCGCTCGGCAAAACATGTTTC 150  
QY 117 CTGTGCGCGCTTCACCGACAAGAGTTCACCTCCT---CGCACATCTCCACCATGGTGT 173  
Db 151 CTGATCCAATTCAAAGACGGGGCCTTCTGTCCGGAACCTTCATAGCCACCGTCGGCATA 210  
QY 174 GACTTTAAGATGAAGACCATAGAGGTAGAGCGCATCAAAGTCGGGATACAGATCTGGGAC 233  
Db 211 GACTTCAGGAACAAGGTGGTGAATGCGGTGAGAGTGAAGCTGCAGATCTGGGAC 270  
QY 234 ACTCAGGCGAGGAGATACACAGACCATCAAGCAGTACTATCGCGCGGCCCGGAGGG 293  
Db 271 ACCGCTGGGCGAGAACCGTTCCGGAAGCGTCACCATGCTTATTACAGAGATGCTCAGGCC 330  
QY 294 ATATTTTGTGCTATGACATTAGCAGGAGCGCTCTTTACCAGCACATCATGAAGTGGGTC 353  
Db 331 TTGCTTCTGCTGTATGACATCAACAACAAATCTTCTTTCGACAACATCAGGCGCTGGCTC 390  
QY 354 AGTGACGTGGATGAGTACGCGACCAAGGGCTCCAGAGATCCTTATTGGGAATAAGGCT 413

Db 391 ACTGAGATTCTAGTATGCCAGAGGACGCTGGTGTATCATCTGCTAGGCAACAAGCG 450  
Qy 414 GATGAGGAGCAAGCGCAGGTGGGAAGAGAGCAAGGCGCAGCTGGCGAAGAGTAT 473  
Db 451 GATATGACGACGGAAGAGTGTATCGTTCGGAAGACGGAGAGACCTTGGCCAGGGAGTAC 510  
Qy 474 GGCATGAGACTTCTATGAACAAGTGCCTGCACCAACCTCAA 514  
Db 511 GGTGTTCCCTTCTTGAGACCGACGCCCAAGACTGGCATGAA 551

## RESULT 7

US-08-773-423-4  
; Sequence 4, Application US/08773423  
; Patent No. 5869291  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Goli, Surya K.  
; APPLICANT: Bandman, Olga  
; TITLE OF INVENTION: NOVEL RAB PROTEINS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA: US/08773,423

; APPLICATION NUMBER: US/08773,423

; FILING DATE: Herewith

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0183 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-855-0555

; TELEFAX: 415-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 847 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: Consensus

; CLONE: Consensus

US-08-773-423-4

Query Match 3.7%; Score 120.6; DB 2; Length 847;

Best Local Similarity 51.5%; Pred. No. 7.1e-21;

Matches 301; Conservative 0; Mismatches 280; Indels 3; Gaps 1;

Qy 22 TCCGGCCCCCGTGGCCCCCATCATGCGGAAGCAGTAGCTGTTCGGGTGCTGTC 81

Db 60 TCGGGANCAAGATGGGAATGGAACCTAGGAAGATTATACTTTGCTTCAAGGTGGTGC 119

Qy 82 TGATCGGGGACTCCGGGTGGCGAAGACCTGCCCTGCTGTCGGCTTACCCACACACAGT 141

Db 120 TGATCGGGGAATCAGGTGTGGGAAGACCAATCTACTCTCCCGATTACCGCGCAATGAGT 179

Qy 142 TCCACTCTCTCGCACATCTCCACCATCGGTGTGTGACTTTAAGATGAAGACCATAGAGGTAG 201

Db 180 TCAGCCACGACAGCGCACCACCATCGGGTTGAGTTCTCCACCCGCACTGTGTGTTGG 239  
Qy 202 ACGGATCAAAAGTGGGATACAGATCTGGGACTGCGAGGCGAGGAGATACCAAGCCA 261  
Db 240 GCACCGCTGCTGTCAAGGCTCAGATCTGGGACACACAGCTGGCCTGGAGCGGTACCGAGCCA 299  
Qy 262 TCACAAAACAGTACTATCGGGGGCCAGGGGATATTTTTGGTCTATGACATTAGCAGCG 321  
Db 300 TCACCTCGGCTACTATCTGTGTGAGTGGGGGCCCTCCTGTGTGTTGACCTTAACCAAGC 359  
Qy 322 AGCGCTTTTACCAGCACATCATGAAGTGGTGAGTGGTGCAGTGCAGTGCAGCACCAGAG 381  
Db 360 ACCAGACCTATGCTGTGTGGAGCGATGGCTGAAGGAGCTCTATGACCATGCTGAAGCCA 419  
Qy 382 GCGTCCAGAAGATCCTTATTTGGGAATAAGCTGATGAGGAGCAAGACGGCAGGTGGGAA 441  
Db 420 CGATCGTCTCATGCTCGTGGGTAAACAAAGTGACTCTCAGCCAGGGCGGGGAAGTGCACA 479  
Qy 442 GAGAGCAAGGCGCAGCTGCGAAGGAGTATGGCATGGACTTCTATGAAACAAGTGCCT 501  
Db 480 CTGAGGAGCGCGAATGTTGCTGAAACAATGGACTGCTCTTCTGGAGACCTCAGCCC 539  
Qy 502 GCACCAACCTCAACATTAA---AGAGTCATTTCACGCGCTGACAGAGCTGGTGTGCAGG 558  
Db 540 TGGACTCTACCAATGTTGAGCTAGCTTTTGAGACTGTCTTGAAGAAATCTTTTGGGAAGG 599  
Qy 559 CCCATGGAAGAGCTGGAAGGCCCTCCGGATGCGTGGCCAGCAAT 602  
Db 600 TGTCCAGCAGAGACAGAACACAGCATCCGGACCAATGCCATCACT 643

## RESULT 8

US-09-399-913-66

; Sequence 66, Application US/09399913

; Patent No. 6361971

; GENERAL INFORMATION:

; APPLICANT: Rhodes, Kenneth

; APPLICANT: Betty, Maria

; APPLICANT: Ling, Hui-Ping

; APPLICANT: An, Wenqian

; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR

; FILE REFERENCE: MNI-070CP2

; CURRENT APPLICATION NUMBER: US/09/399,913

; CURRENT FILING DATE: 1999-09-21

; EARLIER APPLICATION NUMBER: USSN 60/110,277

; EARLIER FILING DATE: 1998-11-30

; EARLIER APPLICATION NUMBER: USSN 60/110,033

; EARLIER FILING DATE: 1998-11-25

; EARLIER APPLICATION NUMBER: USSN 60/109,333

; EARLIER FILING DATE: 1998-11-20

; EARLIER APPLICATION NUMBER: USSN 09/298,731

; EARLIER FILING DATE: 1999-04-23

; EARLIER APPLICATION NUMBER: USSN 09/350,614

; EARLIER FILING DATE: 1999-07-09

; EARLIER APPLICATION NUMBER: USSN 09/350,874

; EARLIER FILING DATE: 1999-07-09

; NUMBER OF SEQ ID NOS: 73

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 66

; LENGTH: 639

; TYPE: DNA

; ORGANISM: Rattus sp.

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (1)...(636)

US-09-399-913-66

Query Match

Best Local Similarity 3.5%; Score 113; DB 4; Length 639;

Matches 251; Conservative 0; Mismatches 230; Indels 0; Gaps 0;

Qy 51 AAGCAGTACGATGTGCTGTTCCGGCTGCTGTGATCGGGGACTCCGGGGTGGGCAAGACC 110

Db 1 ATGGCGTACCCCTATCTTCAAGTACATCAATCATCGGACACACAGTGTGGTAATCG 60  
Qy 111 TGCTGTGTGCGCGCTTACCGACAAAGAGTTCCACTCTCCGACATCTCCACCATCGGT 170  
Db 61 TGCATTATGCTACAGTTTACAGACAAGAGGTTTCAGCGGTGCATGACCTTCAACAATTGGT 120  
Qy 171 GTTGACTTTTAAGATGAAGACCATAGAGGTAGCGGCATCAAAAGTGGGATACAGATCTG 230  
Db 121 GTAGAGTTTGGTCTCGAATGATAACCATTTGATGGGAACAGATAAACTCCAGATCTGG 180  
Qy 231 GACACTCAGCGGAGGAGATACACAGACCATCACAAAGCAGTACTATCGCGGGCCAG 290  
Db 181 GATACAGCAGGAGGAGTCTTTCGTTCTATCACAAGGTATATTACAGAGGTGCAGCG 240  
Qy 291 GGGATATTTTGGTCTATGATAGATAGCAGCGAGCGGTCTTACAGACATCATGAAGTGG 350  
Db 241 GGGCTTTTACTAGTGTATGATATACAAAGGAGAGACAGCTTCAACCACTTGACAACCTGG 300  
Qy 351 GTCACTGACGTGGATGATAGTACGACCAAGAGCGTCCAGAGATCCTTATTGGGAATAAG 410  
Db 301 TTAGAAGACCGCGCTCAGCATTCGAATCCAAATGCAATGCTCATGCTTATTGGAAATAA 360  
Qy 411 GCTCATGAGGAGAGAAACCGCGAGTGGGAAGAGAGCAAGCGCAGCAGCTTGGCGAAGGAG 470  
Db 361 AGTCACTTAGATCTAGAGAGAGTGAAGAAGAGAGAGTGAAGCTTTTGCACGAGAG 420  
Qy 471 TATGCGATGAGTCTTATGAACAAAGTGCCTGCAACCACTCAACATTAAGAGTATTC 530  
Db 421 CATGGACTTATCTTCATGGAACTTCTGCCAAGACTGCTTCTTAATGTAGAGGAGCAATT 480  
Qy 531 A 531  
Db 481 A 481

RESULT 9  
US-08-888-077A-28  
; Sequence 28 Application US/08888077A  
; Patent No. 6020143

; GENERAL INFORMATION:  
; APPLICANT: ST. GEORGE-HYSLOP, PETER H  
; APPLICANT: ROMMENS, JOHANNA M  
; APPLICANT: FRASER, PAUL E  
; TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED  
; TITLE OF INVENTION: TO ALZHEIMER'S DISEASE AND USES THEREFOR.  
; NUMBER OF SEQUENCES: 41

; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK  
; STREET: 600 SOUTH AVENUE WEST  
; CITY: WESTFIELD  
; STATE: NJ

; COUNTRY: USA  
; ZIP: 07090-1497

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII

; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/888.077A  
; FILING DATE: 03-JUL-1997

; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/592,541  
; FILING DATE: 26-JAN-1996

; ATTORNEY/AGENT INFORMATION:  
; NAME: PALISI, THOMAS M  
; REGISTRATION NUMBER: 36,629

; REFERENCE/DOCKET NUMBER: SCHERING 3.0-017 CIP CIP IV  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (908) 654-5000  
; TELEFAX: (908) 654-7866

; INFORMATION FOR SEQ ID NO: 28:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 970 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

; FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: 1..970  
; OTHER INFORMATION: /note="Y2H9"

US-08-888-077A-28

Query Match 3.4%; Score 110; DB 3; Length 970;  
Best Local Similarity 52.9%; Pred. No. 3.5e-18;

Matches 236; Conservative 0; Mismatches 210; Indels 0; Gaps 0;

Qy 55 AGTACGATGTGCTGTTCCGGCTGCTCTGATCGGGACTCCGGGTGGGCAAGACCTGCC 114  
Db 73 AGTACGACTACCTCTTAAAGTTGCTCTTATTGGAGATTCTGGTGTGGAAAGATGTAATC 132  
Qy 115 TGTGTGCGCGCTTACCGACAAAGAGTTCCACTCTCTCGCACATCTCCACCATCGGTGTTG 174  
Db 133 TCGTGTCTGATTTACTCGAATGAGTTTAATCTGGAAGCAAGAGACCACTTGGAGTAG 192  
Qy 175 ACTTTAAGATGAAGACCATAGAGGTAGAGCGGATCAAAAGTGGGATACAGATCTGGGACA 234  
Db 193 AGTTTGCAACAAGAAGCATCCAGTTTGAATGAAAAACAATAAAGGCACAGATATGGGACA 252  
Qy 235 CTCGAGGCGAGGAGATACCAAGCATCACAAAGCAGTACTATCGCGGGCCAGGGGA 294  
Db 253 CAGCAGGCGAAGGAGCATATCGAGCTATACATCAGCATATATCTGGAGCTGTAGGTG 312  
Qy 295 TATTTTGTCTATGACATTAGCAGCGAGCTCTTTACCAGCACATCATCAAGTGGGTCA 354  
Db 313 CCTATTGTTTATGACATTGCTTAACATCTCACATATGAAATGTAGAGCGATGCTGA 372  
Qy 355 GTGACGTGGATAGTAGCGACCAAGAGGCGTCCAGAAAGTCCCTTATTGGGAATAAGCTG 414  
Db 373 AAGAACTGAGAGATCATGCTGTAGTAGTAACATTCTTATCATGCTTGTGGCAATAAGAGTG 432  
Qy 415 ATGAGGAGCAGAAACGCGAGTGGGAAGAGAGCAAGCGCAGCTGGGCAAGAGATG 474  
Db 433 ATCTACGTCTATCAGGCGAGTCTTACAGATGAAGCAAGAGCTTTTGCAGAAAAGAATG 492  
Qy 475 GCATGGACTTCTATGAACAAGTGCC 500  
Db 493 GTTTGTCATTTCATGAAACTTCGGCC 518

RESULT 10  
US-08-741-411-6  
; Sequence 6, Application US/08741411  
; Patent No. 6124116

; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Au-Young, Janice  
; TITLE OF INVENTION: NOVEL RAB PROTEINS  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/741.411  
; FILING DATE: Herewith

```

; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0139 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 820 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: Consensus
;
US-08-741-411-6
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Query Match 2.8%, Score 91.2; DB 3; Length 820;
Best Local Similarity 52.3%; Pred. No. 1.7e-13;
Matches 226; Conservative 0; Mismatches 203; Indels 3; Gaps 1;

Qy 167 CGGTGTTGACATTTAAGATGAAGACCATAGAGGTAGAGCGGATCAAGGTGGGATACAGAT 226
    || || || || || || || || || || || || || || || || || || || || ||
Db 218 CGTGGGTGCGTTCTTCACAAAGGAGGTGGATGGGTGCCACCTCTCTGAAGCTTGAGAT 277
    || || || || || || || || || || || || || || || || || || || || ||
Qy 227 CTGGACACTGCAGGCGAGAGATACACAGACCATCACAAAGCAGTACTATCGCGGGC 286
    || || || || || || || || || || || || || || || || || || || || ||
Db 278 CTGGACACAGCTGCCAGGAGAGTACACAGCGCTTCCACCTCTACTTTCAGGGGTGC 337
    || || || || || || || || || || || || || || || || || || || || ||
Qy 287 CCAGGGGATATTTTGTCTATGATATAGCAGGAGCGCTCTTACCAGCACATCATGAA 346
    || || || || || || || || || || || || || || || || || || || || ||
Db 338 CAACGCTGCGCTTCTGTGTACGATACACACGAGGAGTTCCTTCTCAAGGCTCAGCA 397
    || || || || || || || || || || || || || || || || || || || || ||
Qy 347 GTGGGTGAGTGCAGTGGATGAGTA---CGCACAGAGGCGTCCAGAGATCTTATGG 403
    || || || || || || || || || || || || || || || || || || || || ||
Db 398 GTGCTGTAAGGACCTGGAGGAGGAGCTGCACCCAGGAGAGTCTGTGTATGCTGTGGG 457
    || || || || || || || || || || || || || || || || || || || || ||
Qy 404 GAATAAGCTGATGAGGAGCAGAACGCGAGTGGAGAGCAGCAAGGCGAGCAGCTGC 463
    || || || || || || || || || || || || || || || || || || || || ||
Db 458 CAACAGACGACCTCAGCCAGGAGCGGAGGTGACCTTCCAGGAAGGAGAGTTCG 517
    || || || || || || || || || || || || || || || || || || || || ||
Qy 464 GAAGGAGTATGGCATGGACTTCTATGAACAAGTGCCTTGCCACCACTCAACATTAAGA 523
    || || || || || || || || || || || || || || || || || || || || ||
Db 518 CGACAGCCAGAAGTTGCTGTTTCATGGAACCTTCGSCCAAACTGAACACCAAGGTGCGGA 577
    || || || || || || || || || || || || || || || || || || || || ||
Qy 524 GTCATTACGGCTCTGACAGAGCTGGTCTGTCAGGCCCATAGGAAGAGCTGGAAGCCT 583
    || || || || || || || || || || || || || || || || || || || || ||
Db 578 GGTGTTCAATACAGTGGCCCAAGAGACTCTGCAAGAGAAGCAGCAGGAGGGCCAGGCTCT 637
    || || || || || || || || || || || || || || || || || || || || ||
Qy 584 CCGGATGCTGC 595
    || || || || || || || || || || || || || || || || || || || || ||
Db 638 ACGGGGGATGC 649
    || || || || || || || || || || || || || || || || || || || || ||
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RESULT 11
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
```

```

; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232.463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935.313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: ptz9pt-fis
;
US-08-232-463-14

Query Match 2.6%, Score 85.8; DB 1; Length 7218;
Best Local Similarity 2.3%, Pred. No. 1e-11;
Matches 9; Conservative 251; Mismatches 123; Indels 0; Gaps 0;

Qy 804 TAGCCACTACTCCCGCTCGCTCGGCTGAGAGCGGCTCTGCTCATCTCAAGCAGCCCC 863
    || || || || || || || || || || || || || || || || || || || || ||
Db 1060 TTGCGATYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1119
    || || || || || || || || || || || || || || || || || || || || ||
Qy 864 TGTCGCCAGCCGCTCCACCTGGAGTGTCTTCTTTCAGCCTGTTTCCGCCACACAGGCC 923
    || || || || || || || || || || || || || || || || || || || || ||
Db 1120 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1179
    || || || || || || || || || || || || || || || || || || || || ||
Qy 924 TGCTACGACCCCGACGATGTGCCCAAGCACTGCTCACCATCCGCGCACCCACAGCAA 983
    || || || || || || || || || || || || || || || || || || || || ||
Db 1180 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1239
    || || || || || || || || || || || || || || || || || || || || ||
Qy 984 CAGCCAGGCTGGAGTCCAGGCCACTTTTCAGCTGCTCTTCTCGGTGTCATCGTCTCT 1043
    || || || || || || || || || || || || || || || || || || || || ||
Db 1240 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1299
    || || || || || || || || || || || || || || || || || || || || ||
Qy 1044 TCTCTGTTTTTCTCTCTTCCCGCACCTTCTTCTCTGACCCCTCCCTCCGCTGCGTT 1103
    || || || || || || || || || || || || || || || || || || || || ||
Db 1300 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1359
    || || || || || || || || || || || || || || || || || || || || ||
Qy 1104 TCGTATCAAGCTCTCAAAACCGCTGCCCGGTGCTGCTGTCAGCTGCTCTT 1163
    || || || || || || || || || || || || || || || || || || || || ||
Db 1360 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1419
    || || || || || || || || || || || || || || || || || || || || ||
Qy 1164 TCCTTCTCTCTAAGCTATCAA 1186
    || || || || || || || || || || || || || || || || || || || || ||
Db 1420 YYYYYYYYYYYYYYGTACCAA 1442
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RESULT 12
US-08-741-411-4
; Sequence 4, Application us/08741411
```

Patent No. 6124116  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Au-Young, Janice  
TITLE OF INVENTION: NOVEL RAB PROTEINS  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/741,411  
FILING DATE: Herewith  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0139 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 890 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-08-741-411-4

Query Match 2.58; Score 80.6; DB 3; Length 890;  
Best Local Similarity 54.08; Pred. No. 8.2e-11;  
Matches 183; Conservative 2; Mismatches 151; Indels 3; Gaps 1;  
Qy 30 CCGCTGGCCCGCCAGTCAGTGGGCAAGCAGTACGATGTGTTCCGGCTGCTGCTGATCGGG 89  
Db 36 CCGCGCCGCGAGTGCAGGCCCGCCGACAGGAGCAGCCTGTACAAAGTTGCTGGTATGGC 95  
Qy 90 GACTCCGGGGTGGGCAAGACCTGCTGCTGTGCGCGTTACCGGACACAGGATTCCTCCATCC 149  
Db 96 GACCTGGCGGTGGGSAAGACCAAGCAGTATCATCAAGCGCTACGCTCCACCACTCTTCTCCAG 155  
Qy 150 TCGCACATCTCCACCACGCTGGTGTGACTTTAAGATGAAGACCATAGAGGTAGACGGCATC 209  
Db 156 CACTACCGGGCCACCATCGGGGTGGACTTCGCCCTCAAGGTCTCACTGGGACAGCAGG 215  
Qy 210 A---AAGTCCGCGATACAGATCTGGGACACTCGAGGCGAGGAGATACACGACCATCACA 266  
Db 216 ACTCTGGTGGCGCTGCAGCTGTGGACATCGCGGGCAGGAGCGATTTGGCAACATGACC 275  
Qy 267 AAGCAGTACTATCGCGGGGGCCAGGGGATATTTTGGTCTATGACATAGCAGGCGGCC 326  
Db 276 CGAGTATACACAGGAAGCTGTTGGTCTCTTTGTAGTCTTTGATATATCAAGAAGTTCC 335  
Qy 327 TCTTACCAGCACATCATCAAGTGGTCTCAGTGACGTGGAT 365  
Db 336 ACATTTGAGGCGAGTCTTAAATGGAAAAGTATCTGGAT 374

RESULT 13  
US-09-075-454-8  
Sequence 8, Application US/09075454  
Patent No. 6391580  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Tang, Y. Tom  
APPLICANT: Lal, Preeti  
APPLICANT: Guegler, Karl J.  
APPLICANT: Corley, Neil C.  
APPLICANT: Patterson, Chandra  
APPLICANT: Batra, Sajeed  
APPLICANT: Baughn, Mariah R.  
TITLE OF INVENTION: RAS PROTEINS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: Word Perfect 6.1/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/075,454  
FILING DATE: Herewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/766,551  
FILING DATE: DECEMBER 12, 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Cerrone, Michael C.  
REGISTRATION NUMBER: 39,132  
REFERENCE/DOCKET NUMBER: PF-0168-1 CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1172 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: KIDNOT05  
CLONE: 627565  
US-09-075-454-8

Query Match 2.58; Score 80; DB 4; Length 1172;  
Best Local Similarity 54.48; Pred. No. 1.3e-10;  
Matches 161; Conservative 0; Mismatches 135; Indels 0; Gaps 0;  
Qy 65 GCTGTTCGGCTGCTGCTGATCGGGGACTCCGGGGTGGGCAAGACCTGCTGCTGTGCGCC 124  
Db 178 GATCTCAAGGTATTTGTTGGGGACCTGTGCTGGGGAGACCTTGCCTCATTAATAG 237  
Qy 125 CTTCCACGACAAACAGTTCCACATCTCCGACATCTCCACCATCGGTGTTGACTTTAAGAT 184  
Db 238 GTTCTGCAAGACACCTTTTGATAGAATTACAAGGCCACCATTTGGAGTGGACTTCGAGAT 297  
Qy 185 GAAGACCATAGAGTACGACGACATCAAGTCCGATACAGATCTGGGACACTCGCAGGCA 244  
Db 298 GGAACGATTTAGGTGCTGGGCATTCCTTCAGTTTGCAGTTTGGGATACCGCTGGGCA 357  
Qy 245 GGAGAGATACGACACCATCAAAAAGCACTACTATCGCGGGGCCCGGGGATATTTTGGT 304  
Db 358 GGAGAGGTTCAAATGCATTCATCAACCTACTATAGAGAGCTCAAGCCATCATCATTTGT 417





Db 658 GGAACGATTGAGGTGCTGGGCATTCCCTTCAGCTTTGGGATACCGCTGGGCA 717  
QY 245 GGAGAGATACCAAGACCATCACAAGCAGTACTATCGCGGGCCAGGGGATATTTTGGT 304  
Db 718 GGAGAGGTTCAAATGCATTGCAATCAACCTACTATAGAGGAGCTCAAAGCCATCATCATTTGT 777  
QY 305 CTATGACATTAGCAGCGAGCGCTCTTACCAGCACATCATCAAGTGGGTCAAGTGACG 360  
Db 778 CTTCAACCTGAATGATGTGGCATCTCTGGAACATACCAAGCAGTGGCTGGCCGATG 833

Search completed: January 16, 2003, 02:47:35  
Job time : 87 secs

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 16, 2003, 02:47:19 ; Search time 283 Seconds  
(without alignments)  
5131.424 Million cell updates/sec

Title: US-09-817-198A-1  
Perfect score: 3257  
Sequence: 1 tgcgcgtgccgcgcgcag.....aaaaaaaaaaaaaaaa 3257

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 393868 seqs, 222934149 residues  
Total number of hits satisfying chosen parameters: 787736

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_NA:  
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2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:  
9: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:  
10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:  
11: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:  
12: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:  
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14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3257	100.0	3257	10	US-09-817-198A-1
2	2696.6	82.8	28770	10	US-09-817-198A-3
3	1160.6	35.6	2021	9	US-09-764-868-88
4	599	18.4	601	10	US-09-817-198A-28
5	599	18.4	601	10	US-09-817-198A-29
6	540	16.6	601	10	US-09-817-198A-30
7	534.2	16.4	566	9	US-09-764-868-507
8	516.6	15.9	601	10	US-09-817-198A-31
9	477.4	14.7	481	10	US-09-920-300A-303
10	477.4	14.7	481	12	US-10-033-528-303
c 11	438.8	13.5	463	10	US-09-964-824A-26
12	306.8	9.4	310	9	US-10-046-935-1930
13	306.8	9.4	310	9	US-09-878-178-1930
14	217.8	6.7	624	10	US-09-794-257-9
15	217.8	6.7	1161	10	US-09-794-257-7
16	217.8	6.7	2497	10	US-09-834-975-879
17	217.8	6.7	2497	10	US-09-834-975-885
18	217.8	6.7	2497	10	US-09-834-975-894
19	217.8	6.7	2497	10	US-09-834-975-896

20	210	6.4	601	10	US-09-817-198A-32	Sequence 32, Appl
21	198.4	6.1	1537	10	US-09-925-300-631	Sequence 631, App
22	192	5.9	1274	10	US-09-925-302-91	Sequence 91, Appl
23	173.4	5.3	651	9	US-09-938-842A-836	Sequence 836, App
24	156	4.8	925	10	US-09-967-736-4	Sequence 4, Appli
25	149.6	4.6	1673	9	US-09-954-531-1359	Sequence 1359, Ap
26	146	4.5	601	10	US-09-817-198A-33	Sequence 33, Appl
27	144.6	4.4	3936	10	US-09-919-172-49	Sequence 49, Appl
28	142.6	4.4	585	10	US-09-917-800A-1461	Sequence 1461, Ap
29	136.2	4.2	875	12	US-10-051-986-10	Sequence 10, Appl
30	136.2	4.2	1116	10	US-09-794-257-13	Sequence 13, Appl
31	136.2	4.2	1157	9	US-10-108-605-44	Sequence 44, Appl
32	136.2	4.2	2674	10	US-09-817-199A-1	Sequence 1, Appli
33	135.4	4.2	1316	9	US-09-764-868-493	Sequence 493, App
34	134.6	4.1	2623	9	US-09-764-868-71	Sequence 71, Appl
35	132.6	4.1	896	10	US-09-770-445-478	Sequence 478, App
36	131.8	4.0	576	10	US-09-794-257-15	Sequence 15, Appl
37	127.4	3.9	881	10	US-09-770-445-529	Sequence 529, App
38	124.2	3.8	4083	10	US-09-817-182-1	Sequence 1, Appli
39	123.6	3.8	1022	10	US-09-920-300A-1703	Sequence 1703, Ap
40	123.6	3.8	1022	12	US-10-033-528-1703	Sequence 1703, Ap
41	120.8	3.7	857	10	US-09-917-800A-1426	Sequence 1426, Ap
42	120.8	3.7	1129	10	US-09-925-301-235	Sequence 235, App
43	120.6	3.7	847	10	US-09-988-974-4	Sequence 4, Appli
44	120	3.7	654	9	US-09-938-842A-2113	Sequence 2113, Ap
45	119.4	3.7	609	9	US-09-938-842A-832	Sequence 832, App

ALIGNMENTS

RESULT 1

US-09-817-198A-1

; Sequence 1, Application US/09817198A

; Patent No. US20020146758A1

; GENERAL INFORMATION:

; APPLICANT: YE, Jane et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; FILE REFERENCE: CLO01188

; CURRENT APPLICATION NUMBER: US/09/817.198A

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1

; LENGTH: 3257

; TYPE: DNA

; ORGANISM: Human

US-09-817-198A-1

Query Match 100.0%; Score 3257; DB 10; Length 3257;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 3257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TGCCCGCTGCCCGCCGCGAGTTCCCGCCCGCTCCGCCAGTCATGGCGAAGCAGTACG	60
Db	1	TGCCCGCTGCCCGCCGCGAGTTCCCGCCCGCTCCGCCAGTCATGGCGAAGCAGTACG	60
Qy	61	ATGTGCTCTTCGGGTGCTGCTGTATCGGGGACTCCGGGTGGGCAAGACCTGCCTGCTGT	120
Db	61	ATGTGCTCTTCGGGTGCTGCTGTATCGGGGACTCCGGGTGGGCAAGACCTGCCTGCTGT	120
Qy	121	CCCGCTTCCCGCAACAGATTCCTCCACATCTCCACCATCGGTGTGACTTTA	180
Db	121	CCCGCTTCCCGCAACAGATTCCTCCACATCTCCACCATCGGTGTGACTTTA	180
Qy	181	AGATCAAGACCATAGAGTAGACGCATCAAGTCGGATACAGATCTGGGACACTGCAG	240
Db	181	AGATCAAGACCATAGAGTAGACGCATCAAGTCGGATACAGATCTGGGACACTGCAG	240
Qy	241	GGCAGGAGATACACAGACCATCACAAGCAGTACTATCGCGCGGCCAGGGGATATTTT	300
Db	241	GGCAGGAGATACACAGACCATCACAAGCAGTACTATCGCGCGGCCAGGGGATATTTT	300

Db 241 GCGAGGAGATACAGACCACAAAAGCACTACTATCGCGGGGCCAGGGGATATTT 300  
Qy 301 TGGTCTATGACATTAGCAGCGAGCGCTCTTACCAGCACATCATGAAGTGGGTGAGTACG 360  
Db 301 TGGTCTATGACATTAGCAGCGAGCGCTCTTACCAGCACATCATGAAGTGGGTGAGTACG 360  
Qy 361 TGGATGAGTACGACACGAAGGGCTCCAGAAGATCCCTTATTTGGGAATAAGGCTGATCAGG 420  
Db 361 TGGATGAGTACGACACGAAGGGCTCCAGAAGATCCCTTATTTGGGAATAAGGCTGATCAGG 420  
Qy 421 AGCAAAACGGCAGGTGGGAAGAGAGCAAGGGCAGCAGCTGGCGAAGGATATGGCATGG 480  
Db 421 AGCAAAACGGCAGGTGGGAAGAGAGCAAGGGCAGCAGCTGGCGAAGGATATGGCATGG 480  
Qy 481 ACTTCTATGAACAAGTGCCTGCACCAACCTCAACATTAAGAGTCAATTCACGCGTCTGA 540  
Db 481 ACTTCTATGAACAAGTGCCTGCACCAACCTCAACATTAAGAGTCAATTCACGCGTCTGA 540  
Qy 541 CAGAGCTGGTGTGCGAGGCCCATAGGAAGGAGCTTGAAGGCCCTCCGGATCGTGCCAGCA 600  
Db 541 CAGAGCTGGTGTGCGAGGCCCATAGGAAGGAGCTTGAAGGCCCTCCGGATCGTGCCAGCA 600  
Qy 601 ATGAGTTGGCACTGGCAGAGCTGGAGGAGGAGGAGGCAAAACCCGAGGGGCCAGCGCAACT 660  
Db 601 ATGAGTTGGCACTGGCAGAGCTGGAGGAGGAGGAGGCAAAACCCGAGGGGCCAGCGCAACT 660  
Qy 661 CTTCCGAAAACCTGCTGGTGTGAGTCTGTGTGGGGCACCCACACACACCCCTCTCTCC 720  
Db 661 CTTCCGAAAACCTGCTGGTGTGAGTCTGTGTGGGGCACCCACACACACCCCTCTCTCC 720  
Qy 721 CTCAGGAGGCCGTGGGCAGACAGGGGAGCGGGGCTTTGCCCTGCTGCTCTCTCGT 780  
Db 721 CTCAGGAGGCCGTGGGCAGACAGGGGAGCGGGGCTTTGCCCTGCTGCTCTCTCGT 780  
Qy 781 GTGATGACCCCTATTGAGTATCAGTAGGCACCTACTCCGCCCTGCCCTGGAGCGGGCT 840  
Db 781 GTGATGACCCCTATTGAGTATCAGTAGGCACCTACTCCGCCCTGCCCTGGAGCGGGCT 840  
Qy 841 CTGCTGTCATCTCAAGCAGCCCTGTCCCCAGCCCGTCCACCCGTGGAGTGCTCTTCTCA 900  
Db 841 CTGCTGTCATCTCAAGCAGCCCTGTCCCCAGCCCGTCCACCCGTGGAGTGCTCTTCTCA 900  
Qy 901 GCCTGTTTCCCGACGACAGGCGCTGCTACGACCCCGCAGATGTGCGGCAAGCACTGTCTC 960  
Db 901 GCCTGTTTCCCGACGACAGGCGCTGCTACGACCCCGCAGATGTGCGGCAAGCACTGTCTC 960  
Qy 961 ACCATCCCGCACCCACAGACAGCAGGCGTGGAGTCCAGGCCACTTTCAGCTGCTC 1020  
Db 961 ACCATCCCGCACCCACAGACAGCAGGCGTGGAGTCCAGGCCACTTTCAGCTGCTC 1020  
Qy 1021 CTTTCTCGTGTGATGCT 1080  
Db 1021 CTTTCTCGTGTGATGCT 1080  
Qy 1081 TGACCCCTCCCGTCCGGTGGCTTTCGATATCAAGCTCTCTCAAGCTCTCTCAAGCTCTCT 1140  
Db 1081 TGACCCCTCCCGTCCGGTGGCTTTCGATATCAAGCTCTCTCAAGCTCTCTCAAGCTCTCT 1140  
Qy 1141 CTTGCTGTGTGAGTCTGCT 1200  
Db 1141 CTTGCTGTGTGAGTCTGCT 1200  
Qy 1201 GCTCGTGGGGAGTTTCCACCCCTTGGATCCAGGAAGAACCCCTCCACCCCTGCTCGTGGGTG 1260  
Db 1201 GCTCGTGGGGAGTTTCCACCCCTTGGATCCAGGAAGAACCCCTCCACCCCTGCTCGTGGGTG 1260  
Qy 1261 GGCCAAAGGCTACAGGGTGTCT 1320  
Db 1261 GGCCAAAGGCTACAGGGTGTCT 1320  
Qy 1321 TGGGCTGCTCTCCCGTGTGAGTCTGGAAGTGGAGCATCGAGTGGAGGGAACAGCAA 1380  
Db 1321 TGGGCTGCTCTCCCGTGTGAGTCTGGAAGTGGAGCATCGAGTGGAGGGAACAGCAA 1380

Qy 1381 CCGGGAGTCTCTGAGCCCTGGGGCTGCCCTACCTCTACCCATTCCTCCGACAGAGCTTTG 1440  
Db 1381 CCGGGAGTCTCTGAGCCCTGGGGCTGCCCTACCTCTACCCATTCCTCCGACAGAGCTTTG 1440  
Qy 1441 CCGTTGCTTGGCTGCCCGCTGCCCTCTTTGGGGAAGTACAGCTCAGAGGAGAGTGTCTCAG 1500  
Db 1441 CCGTTGCTTGGCTGCCCGCTGCCCTCTTTGGGGAAGTACAGCTCAGAGGAGAGTGTCTCAG 1500  
Qy 1501 AGAAGCAAAACAAATGAGGGGTGGCAGGATAAAAGTCAACCTCCATCTCTACCTCCCA 1560  
Db 1501 AGAAGCAAAACAAATGAGGGGTGGCAGGATAAAAGTCAACCTCCATCTCTACCTCCCA 1560  
Qy 1561 TGCAGCATGAACACAAATTTCTCTCCACCTGGGTCCCAATTTTAAAGATGTGACCAAGGC 1620  
Db 1561 TGCAGCATGAACACAAATTTCTCTCCACCTGGGTCCCAATTTTAAAGATGTGACCAAGGC 1620  
Qy 1621 CTGTGGGTACTCCAGGGCAAGGAGAGCCCTGGGGTCACTGACACTGTGAGGCCAACCAT 1680  
Db 1621 CTGTGGGTACTCCAGGGCAAGGAGAGCCCTGGGGTCACTGACACTGTGAGGCCAACCAT 1680  
Qy 1681 GCACCTCCAAAGGGGAGCATTTTGGAAATGAAGGACTAGCTCTATGTATCAGGTTAAGA 1740  
Db 1681 GCACCTCCAAAGGGGAGCATTTTGGAAATGAAGGACTAGCTCTATGTATCAGGTTAAGA 1740  
Qy 1741 GCAAGGAGAGCTGGCCAGGAGCAGCAGTTTGCACAGCAGAGGGGAATGTAGCAACAGCA 1800  
Db 1741 GCAAGGAGAGCTGGCCAGGAGCAGCAGTTTGCACAGCAGAGGGGAATGTAGCAACAGCA 1800  
Qy 1801 GGGCTCTTAGGCCCATCTTCCATTTCTTAGTAAAGAGAGCATTTCTCAGACCTCCCA 1860  
Db 1801 GGGCTCTTAGGCCCATCTTCCATTTCTTAGTAAAGAGAGCATTTCTCAGACCTCCCA 1860  
Qy 1861 GCGGAGGAGTGAAGCTTAGCTTTCAGCAACCAAGGTTCTCTGGGACCCAAAGTTTATG 1920  
Db 1861 GCGGAGGAGTGAAGCTTAGCTTTCAGCAACCAAGGTTCTCTGGGACCCAAAGTTTATG 1920  
Qy 1921 GAGAAGGGCAAGACACTTCAATGGGAAGAGAGAGAGGCGCTGGGTAGAAACCTTTGGTG 1980  
Db 1921 GAGAAGGGCAAGACACTTCAATGGGAAGAGAGAGAGGCGCTGGGTAGAAACCTTTGGTG 1980  
Qy 1981 CTCTCTCTTTGGCTTTAAGCAAAAGCGCTCATCTTGGCCCTCTACCTCTCTGATAGGCTT 2040  
Db 1981 CTGTCTCTTTGGCTTTAAGCAAAAGCGCTCATCTTGGCCCTCTACCTCTCTGATAGGCTT 2040  
Qy 2041 GAGGGTTTGGCAACACACTGTGGCTACAGTGGAGGGAAGAGAGTCTCTCTCCAGAG 2100  
Db 2041 GAGGGTTTGGCAACACACTGTGGCTACAGTGGAGGGAAGAGAGTCTCTCTCCAGAG 2100  
Qy 2101 TGCTATCTTCAGGAAGTTTCTTAAACCCCATATGGCCCAAGAGTACGTCTGAGGAGGCC 2160  
Db 2101 TGCTATCTTCAGGAAGTTTCTTAAACCCCATATGGCCCAAGAGTACGTCTGAGGAGGCC 2160  
Qy 2161 TTTAAAGACGGAACAACTAATTTACCAAGTTCTACTGGGGTTCTCTGCCACCGTCCCAAGG 2220  
Db 2161 TTTAAAGACGGAACAACTAATTTACCAAGTTCTACTGGGGTTCTCTGCCACCGTCCCAAGG 2220  
Qy 2221 TGGCGAGGGCTAGGAAGAGGGTCAATTTTAAAGCCACATATAGTGCATGTGGTGCTG 2280  
Db 2221 TGGCGAGGGCTAGGAAGAGGGTCAATTTTAAAGCCACATATAGTGCATGTGGTGCTG 2280  
Qy 2281 CAGCCAAACAAAGAACTGGGTGTGAGTATTCATCACTAAGCAACCAAAATCCAGGGCA 2340  
Db 2281 CAGCCAAACAAAGAACTGGGTGTGAGTATTCATCACTAAGCAACCAAAATCCAGGGCA 2340  
Qy 2341 CTCATATGTGAAGGATGAAGACCTCACTTCTTACTCTCTCCAAAAGAGTGGGGAAGA 2400  
Db 2341 CTCATATGTGAAGGATGAAGACCTCACTTCTTACTCTCTCCAAAAGAGTGGGGAAGA 2400  
Qy 2401 ACCATCAACCTTCTCTGACTTACCAACAGGAAACAGCAGGAGAGGGTGGCTCA 2460  
Db 2401 ACCATCAACCTTCTCTGACTTACCAACAGGAAACAGCAGGAGAGGGTGGCTCA 2460

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QY 2461 GGACTTAGGGACAGGTATAGCTTAGATGGTGGAAAGCAAAAGGAGCAGGAAAGTTGTAA 2520
Db 2461 GGACTTAGGGACAGGTATAGCTTAGATGGTGGAAAGCAAAAGGAGCAGGAAAGTTGTAA 2520
QY 2521 ATCACTGGCTAATGAGAAAAGGAGACAGCTAACTCTAGATGAAGCTGTGACTAGGCTGG 2580
Db 2521 ATCACTGGCTAATGAGAAAAGGAGACAGCTAACTCTAGATGAAGCTGTGACTAGGCTGG 2580
QY 2581 AGTTGCTTCCTTGAAGATGGGACTCCTTTGGGTATCAAGACCTATGCCACATCACACTGGG 2640
Db 2581 AGTTGCTTCCTTGAAGATGGGACTCCTTTGGGTATCAAGACCTATGCCACATCACACTGGG 2640
QY 2641 GCTAGGGAAGTAGGTGATGCCAGCCCTCAAGTCTGCTTTCAGCCAGGACATTGAGAAGTT 2700
Db 2641 GCTAGGGAAGTAGGTGATGCCAGCCCTCAAGTCTGCTTTCAGCCAGGACATTGAGAAGTT 2700
QY 2701 ATATTGGGCAGTGGCTCCAATCTGTGGACCAGTATTTTCAGCTTTCCCTGAAGATCAGCA 2760
Db 2701 ATATTGGGCAGTGGCTCCAATCTGTGGACCAGTATTTTCAGCTTTCCCTGAAGATCAGCA 2760
QY 2761 GGGTGCCCATTCATCTCTTTCTCTCTAGCCCCCTCAGGAAGAAGGACTATATTGTAC 2820
Db 2761 GGGTGCCCATTCATCTCTTTCTCTCTAGCCCCCTCAGGAAGAAGGACTATATTGTAC 2820
QY 2821 TGTACCCCTAGGGTTCTTGGAAAGGAAAAACATGGAATCAGGATTTCTATAGACTGATAGCC 2880
Db 2821 TGTACCCCTAGGGTTCTTGGAAAGGAAAAACATGGAATCAGGATTTCTATAGACTGATAGCC 2880
QY 2881 CTATCCACAAGGGCCATGACTGGGAAAAAGGTATGGGACAGAGAGAAATTTGGGATTTTA 2940
Db 2881 CTATCCACAAGGGCCATGACTGGGAAAAAGGTATGGGACAGAGAGAAATTTGGGATTTTA 2940
QY 2941 GGGTCAGCTACGCTACCCCTAAACTTTTGTGTGGCTGGGCAATCTTTGAGGCCAGAC 3000
Db 2941 GGGTCAGCTACGCTACCCCTAAACTTTTGTGTGGCTGGGCAATCTTTGAGGCCAGAC 3000
QY 3001 TGTAAAGCAGGCTCGCTGGGCTGTTTACTCGTCAACCACCTCTGCACCTCGCTGTCTTGA 3060
Db 3001 TGTAAAGCAGGCTCGCTGGGCTGTTTACTCGTCAACCACCTCTGCACCTCGCTGTCTTGA 3060
QY 3061 ACTCCATCCAGCCCGCAGCAGCCACCTGCTCCTGAGCCTCCACTATCTCCCTGTGAGG 3120
Db 3061 ACTCCATCCAGCCCGCAGCAGCCACCTGCTCCTGAGCCTCCACTATCTCCCTGTGAGG 3120
QY 3121 GTGAACCTCGTACTGTCTCGGCTCATATATGAATTTGTGACAGGGTTTCATCTATT 3180
Db 3121 GTGAACCTCGTACTGTCTCGGCTCATATATGAATTTGTGACAGGGTTTCATCTATT 3180
QY 3181 TTAACACAGATGTTTACAAAATAAAGATTTATTTCAAACCCACCAAAAAA 3240
Db 3181 TTAACACAGATGTTTACAAAATAAAGATTTATTTCAAACCCACCAAAAAA 3240
QY 3241 AAAAAAAAAAAAAA 3257
Db 3241 AAAAAAAAAAAAAA 3257
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RESULT 2
US-09-817-198a-3
; Sequence 3, Application US/09817198a
; Patent No. US20020146758A1
; GENERAL INFORMATION:
; APPLICANT: YE, Jane et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001188
; CURRENT APPLICATION NUMBER: US/09/817.198A
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 28770
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; TYPE: DNA
; ORGANISM: Human
US-09-817-198a-3

Query Match      82.8%; Score 2696.6; DB 10; Length 28770;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 2717; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 473 TGGCATGACCTCTATGAAACAAGTGCTGCACCAACCTCAACATTAAGAGCTATTTCAC 532
Db 25562 TGCCAGGGAGAGGAGAGACACTGGACTTAACCTGTGCCCTTTGGTTTCCAGCTATTTCAC 25621
QY 533 GCGTCTGACAGAGCTGGTGTGAGCCCATAGGAAGAGCTGGAAGGCTCCCGATGCG 592
Db 25622 GCGTCTGACAGAGCTGGTGTGAGCCCATAGGAAGAGCTGGAAGGCTCCCGATGCG 25681
QY 593 TGCCAGCAATGAGTTGGCACTGGCAGAGCTGGAGAGAGAGGCGCAACCCGAGGGGCC 652
Db 25682 TGCCAGCAATGAGTTGGCACTGGCAGAGCTGGAGAGAGAGGCGCAACCCGAGGGGCC 25741
QY 653 AGCGAAGCTCTTGAAGAACTGCTGCTGCTGAGTCTGTGTGGGGCACCCACACACACC 712
Db 25742 AGCGAAGCTCTTGAAGAACTGCTGCTGCTGAGTCTGTGTGGGGCACCCACACACACC 25801
QY 713 COTCTTCCCTCAGGAGGCCCTGGGCAGACAGGGGAGCGGGGCTTTGCGCTGCTGCTGT 772
Db 25802 COTCTTCCCTCAGGAGGCCCTGGGCAGACAGGGGAGCGGGGCTTTGCGCTGCTGCTGT 25861
QY 773 COTCTGCTGATGATACCTATTTGATATCAGTAGCCACTACTTCCCTGCTGCGCCCTGA 832
Db 25862 COTCTGCTGATGATACCTATTTGATATCAGTAGCCACTACTTCCCTGCTGCGCCCTGA 25921
QY 833 GAGCGGCTCTGCTGCTCATCTCAAGCAGCCCTGTCTCCAGCCCGCTCCACCTTGGAGTGGT 892
Db 25922 GAGCGGCTCTGCTGCTCATCTCAAGCAGCCCTGTCTCCAGCCCGCTCCACCTTGGAGTGGT 25981
QY 893 CTCTTTCAGCCCTGTTTCCCGCAGCCACAGGCTGTCTACGACCCCGCAGATGTGCCGCAAGC 952
Db 25982 CTCTTTCAGCCCTGTTTCCCGCAGCCACAGGCTGTCTACGACCCCGCAGATGTGCCGCAAGC 26041
QY 953 ACTGCTCACCATCCCGCACCCACCAGACAGCCAGGCTGGAGTCCAGGCCACTTTC 1012
Db 26042 ACTGCTCACCATCCCGCACCCACCAGACAGCCAGGCTGGAGTCCAGGCCACTTTC 26101
QY 1013 AGCTGCTCTCTTCTCCGTGCACTGCTCTTCTCTGCTGCTTTTCTCTCTCCCGCCTTC 1072
Db 26102 AGCTGCTCTCTTCTCCGTGCACTGCTCTTCTCTGCTGCTTTTCTCTCTCTCCCGCCTTC 26161
QY 1073 TCTTTTCTGACCCCTCCCGTCCGGTGGGTTTCGTATCAAAAGCTCCTCAAAACCCCGTCC 1132
Db 26162 TCTTTTCTGACCCCTCCCGTCCGGTGGGTTTCGTATCAAAAGCTCCTCAAAACCCCGTCC 26221
QY 1133 CCGTGTGCTGCTGTGTGACGCTGCTTTCCTTTCCTTAAGCTATCAAGGGGAT 1192
Db 26222 CCGTGTGCTGCTGTGTGACGCTGCTTTCCTTTCCTTTCCTTAAGCTATCAAGGGGAT 26281
QY 1193 GGACCCAGGCTCGTGGGAGGTTCCACCTTGGATCCAGGAAGAACCCCTCCACCTGCTCT 1252
Db 26282 GGACCCAGGCTCGTGGGAGGTTCCACCTTGGATCCAGGAAGAACCCCTCCACCTGCTCT 26341
QY 1253 CGTGGGTGGGCAAAAGGCTACAGGTGCTTCTTCTTCCCGCCACCCCGCTGCTCCCTC 1312
Db 26342 CGTGGGTGGGCAAAAGGCTACAGGTGCTTCTTCTTCCCGCCACCCCGCTGCTCCCTC 26401
QY 1313 ATGTGCCATGGCCCTGCTCCCGAGTACCTCGGAAGAGTGGAGCATCGAGGTAGAGGGA 1372
Db 26402 ATGTGCCATGGCCCTGCTCCCGAGTACCTCGGAAGAGTGGAGCATCGAGGTAGAGGGA 26461
QY 1373 AACAGCAACCGGGGAGTCTCTCGAGCTCGGGCTGCCCTACCTCTACCCATTCCCGCAACA 1432
Db 26462 AACAGCAACCGGGGAGTCTCTCGAGCTCGGGCTGCCCTACCTCTACCCATTCCCGCAACA 26521
QY 1433 GAGCTTTGCCCTTGCTTGCTGCTGCCCGCTGCTCTTTGGGGAACCTGAGCTCAGAGGCAGG 1492
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## RESULT 5

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US-09-817-198A-29
; Sequence 29, Application US/09817198A
; Patent No. US20020146758A1
; GENERAL INFORMATION:
; APPLICANT: YE, Jane et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; PROTEINS, AND USES THEREOF
; TITLE OF INVENTION:
; FILE REFERENCE: CL001188
; CURRENT APPLICATION NUMBER: US/09/817,198A
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-817-198A-29

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[illegible]

Qy	1383	GGGAGTCTCTCGAGCTGGGGCTGCCCTACCTCTACCCATTTCCCGACACAGAGCTTTGCC	1442
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Db	301	RGGGAGTCTCTCGAGCTGGGGCTGCCCTACCTCTACCCATTTCCCGACACAGAGCTTTGCC	360
Qy	1443	CTTTGCTTTGGCTGCCCGCCTGCCTCTTTGGGGAAGTGAAGCTCAGAGGCAGGTGCTTCAGAG	1502
Db	361	CTTTGCTTTGGCTGCCCGCCTGCCTCTTTGGGGAAGTGAAGCTCAGAGGCAGGTGCTTCAGAG	420
Qy	1503	AAGGAACAATAATGAGGGGTGGCAGGGATAAAAAAGTCAACCTGCCATTTCTCTACCTCCCATG	1562
Db	421	AAGGAACAATAATGAGGGGTGGCAGGGATAAAAAAGTCAACCTGCCATTTCTCTACCTCCCATG	480
Qy	1563	CAGCATGAACACAAATTTCTCTCCACCTGGCTCCCAAAATTTAAACATGTGACCAAGGCCT	1622
Db	481	CAGCATGAACACAAATTTCTCTCCACCTGGCTCCCAAAATTTAAACATGTGACCAAGGCCT	540
Qy	1623	GTGGGTACTCCAGGGCAAGGAGAGCCCTGGGGTCAAGTGACACTGTGAGGCCCAACCATGC	1682
Db	541	GTGGGTACTCCAGGGCAAGGAGAGCCCTGGGGTCAAGTGACACTGTGAGGCCCAACCATGC	600
Qy	1683	A 1683	
Db	601	A 601	

## RESULT 6

US-09-817-198A-30  
; Sequence 30, Application US/09817198A

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; Patent No. US20020146758A1
; GENERAL INFORMATION:
; APPLICANT: YE, Jane et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001188
; CURRENT APPLICATION NUMBER: US/09/817,198A
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-817-1198A-30

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Query Match	16.6%;	Score 540;	DB 10;	Length 601;
Best Local Similarity	99.6%;	Pred. No. 1.5e-104;		
Matches 540;	Conservative 1;	Mismatches 104;	Indels 0;	Gaps 0;
Qy	2682	GCACGGGACTTGAGAAAGTTATATTGGGCAGTGGCTCCAATCTGTGGACCAAGTATTTTCAGC	2741	
Db	1	GCACGGGACTTGAGAAAGTTATATTGGGCAGTGGCTCCAATCTGTGGACCAAGTATTTTCAGC	60	
Qy	2742	TTTCCCTGAAGATCAGGCAGGGTGCCATTTCATTGTCTTCTCTCTAGCCCCCTCAGGAA	2801	
Db	61	TTTCCCTGAAGATCAGGCAGGGTGCCATTTCATTGTCTTCTCTCTAGCCCCCTCAGGAA	120	
Qy	2802	AGAGGACTATATTGTACTGTACCCTAGGGGTTCTGGAAGGGAANAACATGGAATCAGGA	2861	
Db	121	AGAGGACTATATTGTACTGTACCCTAGGGGTTCTGGAAGGGAANAACATGGAATCAGGA	180	
Qy	2862	TTCTATAGACTGATAGGCCCTATCCACAAGGGCCATGACTGGGAAAAGGTATGGGAGCAG	2921	
Db	181	TTCTATAGACTGATAGGCCCTATCCACAAGGGCCATGACTGGGAAAAGGTATGGGAGCAG	240	
Qy	2922	AAGGAGAAATGGGATTTTAGGGTGCAGCTACGCTCACCCCTAAACCTTTTGGTGGCCCTGGGG	2981	
Db	241	AAGGAGAAATGGGATTTTAGGGTGCAGCTACGCTCACCCCTAAACCTTTTGGTGGCCCTGGGG	300	
Qy	2982	CATGCTTTGAGGCCACGAGCTGTTAAGCAGGCTCTGCTGGCCTGTTTTACTCGTCACCACT	3041	
Db	301	YATGCTTTGAGGCCACGAGCTGTTAAGCAGGCTCTGCTGGCCTGTTTTACTCGTCACCACT	360	
Qy	3042	CTGCACCTGCTGCTTTGAGACTCCATCAGCCCCCAGGCACGCCACCTGCTCCTGAGCCCTC	3101	
Db	361	CTGCACCTGCTGCTTTGAGACTCCATCAGCCCCCAGGCACGCCACCTGCTCCTGAGCCCTC	420	
Qy	3102	CACATATCCCTGTGACCGGTTGAACCTCGTGTACTGTCTCGGGTCCATATATGAATTTG	3161	
Db	421	CACATATCCCTGTGACCGGTTGAACCTCGTGTACTGTCTCGGGTCCATATATGAATTTG	480	
Qy	3162	TGAGCAGGGTTCATCTATTTTAAACACAGATGTTTTACAAAATAAAGATTTATTTCAAACCA	3221	
Db	481	TGAGCAGGGTTCATCTATTTTAAACACAGATGTTTTACAAAATAAAGATTTATTTCAAACCA	540	
Qy	3222	CC 3223		
Db	541	CC 542		

## RESULT 7

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US-09-764-868-507
: Sequence 507, Application US/09764868
: Patent No. US20020168711A1
: GENERAL INFORMATION:
: APPLICANT: Rosen et al.
: TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
: FILE REFERENCE: PT32
: CURRENT APPLICATION NUMBER: US/09/764,868
: CURRENT FILING DATE: 2001-01-17
: Prior application data removed - refer to PALM or file wrapper

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; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 507  
; LENGTH: 566  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (484)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (493)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (538)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (563)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-09-764-868-507

Query Match 16.4%; Score 534.2; DB 9; Length 566;  
Best Local Similarity 98.9%; Pred. No. 2.4e-103;  
Matches 533; Conservative 2; Mismatches 4; Indels 0; Gaps 0;  
  
QY 2 GCCCGCTGCCCGCCGAGTTCCCGCGCCCGCTGCCCGCCAGTCATGGCAGCAGTACGA 61  
Db 28 GCCCGCTGCCCGCCGAGTTCCCGCGCCCGCTGCCCGCCAGTCATGGCAGCAGTACGA 87  
  
QY 62 TGTGCTGTTCGGGTGCTGTGATCGGGGAGTCCGGGGTGGGCAAGACCTGCCCTGCTGTG 121  
Db 88 TGTGCTGTTCGGGTGCTGTGATCGGGGAGTCCGGGGTGGGCAAGACCTGCCCTGCTGTG 147  
  
QY 122 CCGCTTACCCGACACGAGTCCACTCCTCCGACATCTCCACCATCGTGTGACTTTAA 181  
Db 148 CCGCTTACCCGACACGAGTCCACTCCTCCGACATCTCCACCATCGTGTGACTTTAA 207  
  
QY 182 GATGAAGACCATAGAGGTAGACGCGATCAAGTCCGGGATACAGATCTGGGACACTGCAGG 241  
Db 208 GATGAAGACCATAGAGGTAGACGCGATCAAGTCCGGGATACAGATCTGGGACACTGCAGG 267  
  
QY 242 GCAGGAGATACAGACCATCAAAAGCAGTACTATCGGGGGCCCGACGGGATATTTT 301  
Db 268 GCAGGAGATACAGACCATCAAAAGCAGTACTATCGGGGGCCCGACGGGATATTTT 327  
  
QY 302 GGTCTATGACATTAGCAGCGAGCGCTCTTACCAGCATCATGAAGTGGGTCACTGACGT 361  
Db 328 GGTCTATGACATTAGCAGCGAGCGCTCTTACCAGCATCATGAAGTGGGTCACTGACGT 387  
  
QY 362 GGATGATACGACACGAGCGCTCCAGAGATCCTTATTGGGAATAAGGCTGATGAGGA 421  
Db 388 GGATGATACGACACGAGCGCTCCAGASATCCTTATTGGGAATAAGGCTGATGAGGA 447  
  
QY 422 GCAGAAACGGCAGGTGGGAAGAGAGCAGGCGACGCTGCCGAAGGAGTATGCGATGGA 481  
Db 448 GCAGAAACGGCAGGTGGGAAGAGAGCAGGCGACGCTGCCGAAGGAGTATGCGATGGA 507  
  
QY 482 CTTCTATCAACAGTGCCTCCACCACTCAACATTAAGAGTCATTACGCGCTCTGA 540  
Db 508 CTTCTATGAACAAGTGCCTCCACCACTNAACATTAAGAGTCATTACGCGCTNTGA 566

RESULT 8  
US-09-817-198a-31  
; Sequence 31, Application US/09817198A  
; Patent No. US20020146758A1  
; GENERAL INFORMATION:  
; APPLICANT: YE, Jane et al.  
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001188  
; CURRENT APPLICATION NUMBER: US/09/817,198A

; CURRENT FILING DATE: 2001-03-27  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 31  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-817-198A-31

Query Match 15.9%; Score 516.6; DB 10; Length 601;  
Best Local Similarity 99.8%; Pred. No. 1.2e-99;  
Matches 516; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
  
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Db 1 GGCAGTGGCTCCAATCTGTGGACCACTATTTCAGCTTTCCTCGAAGATCAGCGAGGTGC 60  
  
QY 2767 CATTCAATTGCTTTCTCTCTAGCCCTCAGGAAGAAGACTATATTTCTACTGTACC 2826  
Db 61 CATTCAATTGCTTTCTCTCTAGCCCTCAGGAAGAAGACTATATTTCTACTGTACC 120  
  
QY 2827 CTAGGGGTTCTGGAAGGAAACATGGAATCAGGATTCTATAGACTGATAGGCCCTATCC 2886  
Db 121 CTAGGGGTTCTGGAAGGAAACATGGAATCAGGATTCTATAGACTGATAGGCCCTATCC 180  
  
QY 2887 ACAAGGCGCATGACTGGGAAAGGTATGGGAGCAGAAAGGAATTTGGGATTTTAGGGTGC 2946  
Db 181 ACAAGGCGCATGACTGGGAAAGGTATGGGAGCAGAAAGGAATTTGGGATTTTAGGGTGC 240  
  
QY 2947 AGCTACGCTCACCCCTAAACTTTTGGTGGCCCTGGGCGATGTCTTGAGGCCAGACTGTTAA 3006  
Db 241 AGCTACGCTCACCCCTAAACTTTTGGTGGCCCTGGGCGATGTCTTGAGGCCAGACTGTTAA 300  
  
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QY 3187 ACAGATGTTTACAAAATAAGATTATTTCAAACCAACC 3223  
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RESULT 9  
US-09-920-300A-303  
; Sequence 303, Application US/09920300A  
; Patent No. US20020136728A1  
; GENERAL INFORMATION:  
; APPLICANT: King, Gordon E.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Secrist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.547  
; CURRENT APPLICATION NUMBER: US/09/920,300A  
; CURRENT FILING DATE: 2001-07-31  
; NUMBER OF SEQ ID NOS: 1789  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 303  
; LENGTH: 481  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 417, 461

OTHER INFORMATION: n = A,T,C or G  
US-09-920-300A-303

Query Match 14.7%; Score 477.4; DB 10; Length 481;  
Best Local Similarity 99.4%; Pred. No. 2e-91;  
Matches 478; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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DB 1 GTTGGCTTCCTTGAAGATGGGACTCCTTGGGTATCAAGACCTATGCCACATCACACTGGGG 60  
QY 2642 CTAGGGAAGTAGTGATGCCAGCCCTCAAGCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 2701  
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DB 61 CTAGGGAAGTAGTGATGCCAGCCCTCAAGCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 120  
QY 2702 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCTGAAGATCAGGCAG 2761  
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DB 121 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCTGAAGATCAGGCAG 180  
QY 2762 GGTGCCATTCAATTTCTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 2821  
|||||  
DB 181 GGTGCCATTCAATTTCTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 240  
QY 2822 GTACCCCTAGGGTCTTGGGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCC 2881  
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DB 241 GTACCCCTAGGGTCTTGGGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCC 300  
QY 2882 TATCCACAAGGGCCATGCTGGAAGAGGTATGGGAGCAGAGGAAATTTGGGATTTAG 2941  
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DB 301 TATCCACAAGGGCCATGCTGGAAGAGGTATGGGAGCAGAGGAAATTTGGGATTTAG 360  
QY 2942 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGCTTTCAGGCCCCAGCT 3001  
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DB 361 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGCTTTCAGGCCCCANACT 420  
QY 3002 GTTAAGCAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTTGAGA 3061  
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DB 421 GTTAACCAAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTTGAGA 480  
QY 3062 C 3062  
DB 481 C 481

RESULT 10  
US-10-033-528-303  
; Sequence 303, Application US/10033528  
; Patent No. US20020131971A1  
; GENERAL INFORMATION:  
; APPLICANT: King, Gordon E.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Secretist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.547C1  
; CURRENT APPLICATION NUMBER: US/10/033,528  
; CURRENT FILING DATE: 2001-12-26  
; NUMBER OF SEQ ID NOS: 1896  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 303  
; LENGTH: 481  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 417, 461  
; OTHER INFORMATION: n = A,T,C or G  
US-10-033-528-303

Query Match 14.7%; Score 477.4; DB 12; Length 481;  
Best Local Similarity 99.4%; Pred. No. 2e-91;  
Matches 478; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2582 GTTGGCTTCCTTGAAGATGGGACTCCTTGGGTATCAAGACCTATGCCACATCACACTGGGG 2641  
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DB 1 GTTGGCTTCCTTGAAGATGGGACTCCTTGGGTATCAAGACCTATGCCACATCACACTGGGG 60  
QY 2642 CTAGGGAAGTAGTGATGCCAGCCCTCAAGCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 2701  
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DB 61 CTAGGGAAGTAGTGATGCCAGCCCTCAAGCTGTCTTCAGCCAGGAGCTTGAGAAGTTA 120  
QY 2702 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCTGAAGATCAGGCAG 2761  
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DB 121 TATTGGCAGTGGCTCCCAATCTGTGACCAAGTATTTTCAGCTTTCCTGAAGATCAGGCAG 180  
QY 2762 GGTGCCATTCAATTTCTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 2821  
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DB 181 GGTGCCATTCAATTTCTCTCTCTAGCCCTCAGGAAAGAGACTATATTTGTACT 240  
QY 2822 GTACCCCTAGGGTCTTGGGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCC 2881  
|||||  
DB 241 GTACCCCTAGGGTCTTGGGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCC 300  
QY 2882 TATCCACAAGGGCCATGCTGGAAGAGGTATGGGAGCAGAGGAAATTTGGGATTTAG 2941  
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DB 301 TATCCACAAGGGCCATGCTGGAAGAGGTATGGGAGCAGAGGAAATTTGGGATTTAG 360  
QY 2942 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGCTTTCAGGCCCCAGCT 3001  
|||||  
DB 361 GGTGCAGCTACGCTCAACCTTAACTTTTGTGGCCTGGGCAATGCTTTCAGGCCCCANACT 420  
QY 3002 GTTAAGCAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTTGAGA 3061  
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DB 421 GTTAACCAAGGCTCTGTGGCCTGTTTACTCGTCACCACTCTGCACCTGCTGCTTTGAGA 480  
QY 3062 C 3062  
DB 481 C 481

Query Match 13.5%; Score 438.8; DB 10; Length 463;  
Best Local Similarity 99.3%; Pred. No. 2.5e-83;  
Matches 451; Conservative 0; Mismatches 2; Indels 1; Gaps 1;  
QY 2790 CCCCTCAGGAAAGAGGACTATATTTGTACTGTACCTAGGGGTTCTGGAAGGAAAC 2849  
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DB 453 CCCCTCAGGAAAGAGGACTATATTTGTACTGTACCTAGGGGTTCTGGAAGGAAAC 394  
QY 2850 ATGGAATCAGGATTTCTATAGACTGATAGCCCTATCCACAAAGGCCCATGACTGGGAAAG 2909  
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GENERAL INFORMATION: Cancer Gene Determination and Therapeutic Screening Using Sign

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Db 393 ATGGAATCAGATTCTATAGACTCATAGGCCCTATCCACAAGGCCCATGACTGGGAAAG 334
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Db 333 GTATGGGAGCAGAGAGAAATGGGATTTTAGGTTGCAG-TAGCCTCACCTAACTTTT 275
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Db 214 TCGTCACCACCTCTGCACCTGCTCTTGTAGACTTCCATCCAGCCCGCAGGACGCCACCTG 155
QY 3090 CTCTGAGCCTCCACATATCTCCCTGTGCACGGGTGAATCTGCTACTGTCTCTCGGGTCC 3149
Db 154 CTCTGAGCCTCCACATATCTCCCTGTGCACGGGTGAATCTGCTACTGTCTCTCGGGTCC 95
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Db 94 ATATATGAATGTGAGCAGGGTTCATCTATTTTAAACACAGATGTTTACAAAAATAAGAT 35
QY 3210 TATTTCAACCCACCAAAAAAATAAAAAA 3243
Db 34 TATTTCAACCCACCAAAAAAATAAAAAA 1
RESULT 12
US-10-046-935-1930
; Sequence 1930, Application US/10046935
; Patent No. US20020156011A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aljun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.527C1
; CURRENT APPLICATION NUMBER: US/10/046,935
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1930
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-046-935-1930
Query Match 9.4%; Score 306.8; DB 9; Length 310;
Best Local Similarity 99.4%; Pred. No. 1.2e-55;
Matches 308; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 2884 TCCACAGGGCCCATGACTGGGAAAGGTATGGAGCAGAGAGAGAAATGGGATTTTAGGG 2943
Db 61 TCCACAGGGCCCATGACTGGGAAAGGTATGGAGCAGAGAGAGAAATGGGATTTTAGGG 120
QY 2944 TGCAGCTACCTCACCTTAACCTTTTGGTGGCTGGGCGCATGCTTTCAGGCCCAGACTGT 3003
Db 121 TGCAGCTACCTCACCTTAACCTTTTGGTGGCTGGGCGCATGCTTTCAGGCCCAGACTGT 180
QY 3004 TAACGAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 3063
Db 181 TAACGAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 240
QY 3064 CCATCCAGCCCCAGGCACGCCACCTGCTCTGAGCCTCCCACTATCTCCCTGTGACGGGTG 3123
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QY 3124 AACTTCGTGT 3133
Db 301 AACTTCGTGT 310
RESULT 14
US-09-794-257-9
; Sequence 9, Application US/09794257
; Patent No. US2002009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 624
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Db 301 AACTTCGTGT 310
RESULT 13
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; Sequence 1930, Application US/09878178
; Patent No. US20020177552A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.527
; CURRENT APPLICATION NUMBER: US/09/878,178
; CURRENT FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 2237
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1930
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-878-178-1930
Query Match 9.4%; Score 306.8; DB 9; Length 310;
Best Local Similarity 99.4%; Pred. No. 1.2e-55;
Matches 308; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2824 ACCCTAGGGTCTCTGGAAGGAAACATGGAATCAGGATTTCTATAGACTGATAGGCCCTA 2883
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QY 2884 TCCACAGGGCCCATGACTGGGAAAGGTATGGAGCAGAGAGAGAAATGGGATTTTAGGG 2943
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QY 2944 TGCAGCTACCTCACCTTAACCTTTTGGTGGCTGGGCGCATGCTTTCAGGCCCAGACTGT 3003
Db 121 TGCAGCTACCTCACCTTAACCTTTTGGTGGCTGGGCGCATGCTTTCAGGCCCAGACTGT 180
QY 3004 TAACGAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 3063
Db 181 TAACGAGGCTCTGCTGGCCTGTTTACTCGTCACCACTCTGCACCTCTGCTCTTGAGACT 240
QY 3064 CCATCCAGCCCCAGGCACGCCACCTGCTCTGAGCCTCCCACTATCTCCCTGTGACGGGTG 3123
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QY 3124 AACTTCGTGT 3133
Db 301 AACTTCGTGT 310
RESULT 14
US-09-794-257-9
; Sequence 9, Application US/09794257
; Patent No. US2002009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 624
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OM protein - protein search, using sw model

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Title: US-09-817-198a-2

Perfect score: 1105

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Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 4: /cgn2.6/ptodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2.6/ptodata/1/iaa/PTUS\_COMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	545	49.3	207	2	US-08-824-873-4
2	545	49.3	207	3	US-09-198-184-4
3	527.5	47.7	205	2	US-08-531-525-25
4	527.5	47.7	205	2	US-08-718-270A-25
5	518.5	46.9	198	2	US-08-531-525-51
6	518.5	46.9	198	2	US-08-718-270A-51
7	503.5	45.6	207	2	US-08-531-525-35
8	503.5	45.6	207	2	US-08-718-270A-35
9	494.5	44.8	215	2	US-08-531-525-10
10	494.5	44.8	215	2	US-08-718-270A-10
11	488.5	44.2	194	2	US-08-531-525-34
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14	478.5	43.3	201	4	US-09-154-602-3
15	469	42.4	201	2	US-08-916-901-8
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18	463	41.9	202	2	US-08-718-270A-14
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20	453.5	41.0	201	2	US-08-718-270A-13
21	452.5	41.0	190	3	US-08-824-873-3
22	452.5	41.0	190	3	US-09-198-184-3
23	443	40.1	218	2	US-08-531-525-19
24	443	40.1	218	2	US-08-718-270A-19
25	416	37.6	191	4	US-09-075-454-3
26	412.5	37.3	212	4	US-09-399-913-67
27	409.5	37.1	190	2	US-08-824-873-1

28	409.5	37.1	190	3	US-09-198-184-1	Sequence 1, Appl
29	409.5	37.1	212	2	US-08-531-525-18	Sequence 18, Appl
30	409.5	37.1	212	2	US-08-718-270A-18	Sequence 18, Appl
31	409.5	37.1	214	2	US-08-531-525-52	Sequence 52, Appl
32	409.5	37.1	214	2	US-08-718-270A-52	Sequence 52, Appl
33	396.5	35.9	203	2	US-08-766-551-8	Sequence 8, Appl
34	387	35.0	210	2	US-08-531-525-16	Sequence 16, Appl
35	387	35.0	210	2	US-08-718-270A-16	Sequence 16, Appl
36	373	33.8	213	2	US-08-773-423-8	Sequence 8, Appl
37	373	33.8	217	2	US-08-773-423-3	Sequence 3, Appl
38	372	33.7	208	2	US-08-531-525-17	Sequence 17, Appl
39	372	33.7	208	2	US-08-718-270A-17	Sequence 17, Appl
40	368.5	33.3	208	2	US-08-531-525-15	Sequence 15, Appl
41	368.5	33.3	208	2	US-08-718-270A-15	Sequence 15, Appl
42	360	32.6	213	2	US-08-531-525-11	Sequence 11, Appl
43	360	32.6	213	2	US-08-718-270A-11	Sequence 11, Appl
44	359.5	32.5	191	2	US-08-531-525-26	Sequence 26, Appl
45	359.5	32.5	191	2	US-08-718-270A-26	Sequence 26, Appl

ALIGNMENTS

RESULT 1  
US-08-824-873-4  
; Sequence 4, Application US/08824873  
; Patent No. 5843717  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Guegler, Karl  
; TITLE OF INVENTION: NOVEL RAB PROTEIN  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/824,873  
; FILING DATE: Filed Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0240 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 207 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 234746  
US-08-824-873-4

Query Match 49.3%; Score 545; DB 2; Length 207;  
Best Local Similarity 52.9%; Pred. No. 2.2e-52;  
Matches 99; Conservative 45; Mismatches 43; Indels 0; Gaps 0;

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RESULT 2
US-09-198-184-4
; Sequence 4, Application US/09198184
; Patent No. 6010859
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Fastseq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09198,184

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	Best Local Similarity	52.9%	Pred. No. 2.2e-52:		
	Matches	99:	Conservative	45:	Mismatches 43: Indels 0: Gaps
QY	1	MAKQYDVLFRLLLLICDSGVGKTCLLCRFTNERHSSHSITGVDEKMKTIEVDGKVRQ	60		
DB	1	MAKTYDYLFKLLIGDSGVGKTCVLFREFSADFNSTISTIGDIFKRTIELDGKKIKQ	60		
QY	61	IWDTAGQERYOTITKQYYRRAQGIFLVLYDISSERSYGHIMKWYSDVDEAYEAPGVOKILQ	120		

61	INDTACQERFRTITTA	YRGAMGIMLVYDIT	NEKSFNDINRWIRN	TEEHASADVEKMI	120
Db					
121	NKADEQKROVGREGO	OLAKCYGMDFPYET	SACTNINIKESFTR	ELTVLQAHKKEGL	180
Qy					
121	NKCDVNDKROVSKER	GALDYIKFMEYSAK	ANINVENAFTFLAR	DIKAKMKDKLEGN	180
Db					
181	RMRASNE	187			
Qy					
181	SPOGSNO	187			
Db					

RESULT 3  
 US-08-531-525-25  
 ; Sequence 25, Application US/08531525  
 ; Patent NO. 5840683  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hlavka, Joseph J.  
 ; APPLICANT: Pincus, Matthew R.  
 ; APPLICANT: No. 5840683le, John F.  
 ; APPLICANT: Abajian, Henry B.  
 ; APPLICANT: Kende, Andrew S.  
 ; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action  
 ; OF INVENTION: of P21 Ras  
 ; NUMBER OF SEQUENCES: 52  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Greenlee and Winner, P.C.  
 ; STREET: 5370 Manhattan Circle, Suite 201  
 ; CITY: Boulder  
 ; STATE: Colorado  
 ; COUNTRY: US  
 ; ZIP: 80303  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/531,525  
 ; FILING DATE: 21-SEP-1995  
 ; CLASSIFICATION: 530  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Ferber, Donna M.  
 ; REGISTRATION NUMBER: 33,878  
 ; REFERENCE/DOCKET NUMBER: 37-94  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (303) 499-8080  
 ; TELEFAX: (303) 499-8089  
 ; INFORMATION FOR SEQ ID NO: 25:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 205 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; HYPOTHETICAL: NO  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Canis familiaris  
 US-08-531-525-25

Query Match	47.7%	Score 527.5;	DB 2;	Length 205;
Best Local Similarity	52.4%	Pred. No. 1.9e-50;		
Matches	97;	Conservative	45;	Mismatches 42;
				Indels 1;
				Gaps 1;

[illegible]



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US-08-531-525-35
; Sequence 35, Application US/08531525
; Patent No. 5840683
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 5840683le, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
; TITLE OF INVENTION: of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C. 201
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/531,525
; FILING DATE: 21-SEP-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 37-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Discopyge ommata
US-08-531-525-35

Query Match 45.6%; Score 503.5; DB 2; Length 207;
Best Local Similarity 46.4%; Pred. No. 8.8e-48;
Matches 96; Conservative 56; Mismatches 44; Indels 11; Gaps 4;

QY 3 KQYDVLFRLLIGDSGVGKTCLLCRFTDNEFHSHSHSTIGVDPKMKTIEVDGKIKVRIQW 62
Db 2 KTYDYLFKLLIGDSGVGKTCLLFRFSDAFNTFTSTIGDIFKRTVELDGKKIKLQIW 61

QY 63 DTAGQERYQITIKQYVRRAGQIFLVYDIDISSERSYQHIMKWSDVDYAPGEGVQKILIGNK 122
Db 62 DTAGQERFRIT AYRGAMGIMKV-DITNEKSFQDKWIRNIEHASSDVERMILGNK 119

QY 123 ADEQKRVQREGQOOLAKYGMDFYETSACTNLNKESFTRLTVELVQAHKKEGLRLM 182
Db 120 CDWNEKRVQSKERGEKLAIDYGIKELETSKSSINVEEAFITLARDIMTKLNKKM----- 174

QY 183 RASNELALAE-LEEECKPCEPANSSK 208
Db 175 ---NENSLQEAVDKLKSPPKKPSQKK 198

RESULT 8
US-08-718-270A-35
; Sequence 35, Application US/08718270A
; Patent No. 5910478
; GENERAL INFORMATION:
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US-08-718-270A-51
; Sequence 51, Application US/08718270A
; Patent No. 5910478
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 5910478le, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptidomimetics Inhibiting
; TITLE OF INVENTION: the Oncogenic Action of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,270A
; FILING DATE: 20-SEP-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/531,525
; FILING DATE: 21-SEP-1995
; PRIOR APPLICATION DATA: US 60/004,091
; FILING DATE: 21-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 78-95
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 198 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Canis familiaris
US-08-718-270A-51

Query Match 46.9%; Score 518.5; DB 2; Length 198;
Best Local Similarity 55.0%; Pred. No. 1.1e-49;
Matches 94; Conservative 45; Mismatches 31; Indels 1; Gaps 1;

QY 1 MAKQYDVLFRLLIGDSGVGKTCLLCRFTDNEFHSHSHSTIGVDPKMKTIEVDGKIKVRIQ 60
Db 1 MKKTYDYLFKLLIGDSGVGKTCVLFRESDDAFNTFTIS-IGDFKIKTVLQCKKIKLQ 59

QY 61 IWDTAGQERYQITIKQYVRRAGQIFLVYDIDISSERSYQHIMKWSDVDYAPGEGVQKILIG 120
Db 60 IWDTAGQERFRITTSYRGAMGIMLVYDITNGSKSFENISKWLNRIDSHANEDVERMLLG 119

QY 121 NKADEQKRVQREGQOOLAKYGMDFYETSACTNLNKESFTRLTVELVLQ 171
Db 120 NKCDMDKRVVPKRGEGIAREHGIRFETSQKVNINIEKAFLTLAEDILR 170

RESULT 7
```



APPLICANT: Hlavka, Joseph J.  
 APPLICANT: Pincus, Matthew R.  
 APPLICANT: No. 59104781e, John F.  
 APPLICANT: Abajian, Henry B.  
 APPLICANT: Kende, Andrew S.  
 TITLE OF INVENTION: Peptidomimetics Inhibiting  
 THE ONCOGENIC ACTION OF P21 Ras  
 NUMBER OF SEQUENCES: 52  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Greenlee, Winner and Sullivan, P.C.  
 STREET: 5370 Manhattan Circle, Suite 201  
 CITY: Boulder  
 STATE: Colorado  
 COUNTRY: US  
 ZIP: 80303  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC Compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/7118,270A  
 FILING DATE: 20-SEP-1996  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/531,525  
 FILING DATE: 21-SEP-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/004,091  
 FILING DATE: 21-SEP-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ferber, Donna M.  
 REGISTRATION NUMBER: 33,878  
 REFERENCE/DOCKET NUMBER: 78-95  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (303) 499-8080  
 TELEFAX: (303) 499-8089  
 INFORMATION FOR SEQ ID NO: 35:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 207 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Discoplyge ommata  
 US-08-718-270A-35

[illegible]

RESULT 9  
US-08-531-525-10  
; Sequence 10, Application US/08531525

```

: Patent No. 5840683
:
: GENERAL INFORMATION:
:
: APPLICANT: Hlavka, Joseph J.
: APPLICANT: Pincus, Matthew R.
: APPLICANT: No. 5840683le, John F.
: APPLICANT: Abajian, Henry B.
: APPLICANT: Kende, Andrew S.
:
: TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
:
: TITLE OF INVENTION: of P21 Ras
:
: NUMBER OF SEQUENCES: 52
:
: CORRESPONDENCE ADDRESS:
:
: ADDRESSEE: Greenlee and Winnner, P.C.
:
: STREET: 5370 Manhattan Circle, Suite 201
:
: CITY: Boulder
:
: STATE: Colorado
:
: COUNTRY: US
:
: ZIP: 80303
:
: COMPUTER READABLE FORM:
:
: MEDIUM TYPE: Floppy disk
:
: COMPUTER: IBM PC compatible
:
: OPERATING SYSTEM: PC-DOS/MS-DOS
:
: SOFTWARE: Patentin Release #1.0, Version #1.30
:
: CURRENT APPLICATION DATA:
:
: APPLICATION NUMBER: US/08/531,525
:
: FILING DATE: 21-SEP-1995
:
: CLASSIFICATION: 530
:
: ATTORNEY/AGENT INFORMATION:
:
: NAME: Ferber, Donna M.
:
: REGISTRATION NUMBER: 33,878
:
: REFERENCE/DOCKET NUMBER: 37-94
:
: TELECOMMUNICATION INFORMATION:
:
: TELEPHONE: (303) 499-8080
:
: TELEFAX: (303) 499-8089
:
: INFORMATION FOR SEQ ID NO: 10:
:
: SEQUENCE CHARACTERISTICS:
:
: LENGTH: 215 amino acids
:
: TYPE: amino acid
:
: STRANDEDNESS: single
:
: TOPOLOGY: linear
:
: MOLECULE TYPE: protein
:
: HYPOTHEtical: NO
:
: ORIGINAL SOURCE:
:
: ORGANISM: Arabidopsis thaliana
:
: PS-08-531-525-10

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Query Match	44.8%	Score 494.5;	DB 2;	Length 215;
Best Local Similarity	46.9%;	Pred. No. 9.2e-47;		
Matches 100: Conservative	40;	Mismatches 54;	Indels 19;	Gaps 4;

[illegible]

RESULT 10  
US-08-718-270A-10  
; Sequence 10, Application US/08718270A  
; Patent No. 5910478  
; GENERAL INFORMATION:  
; APPLICANT: Hlavka, Joseph J.  
; APPLICANT: Pincus, Matthew R.

APPLICANT: No. 59104781e, John F.  
 APPLICANT: Abajian, Henry B.  
 APPLICANT: Kende, Andrew S.  
 TITLE OF INVENTION: Peptidomimetics Inhibiting  
 TITLE OF INVENTION: the Oncogenic Action of P21 Ras  
 NUMBER OF SEQUENCES: 52  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Greenlee, Winner and Sullivan, P.C.  
 STREET: 5370 Manhattan Circle, Suite 201  
 CITY: Boulder  
 STATE: Colorado  
 COUNTRY: US  
 ZIP: 80303  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/718,270A  
 FILING DATE: 20-SEP-1996  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/531,525  
 FILING DATE: 21-SEP-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/004,091  
 FILING DATE: 21-SEP-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ferber, Donna M.  
 REGISTRATION NUMBER: 33,878  
 REFERENCE/DOCKET NUMBER: 78-95  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (303) 499-8080  
 TELEFAX: (303) 499-8089  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 215 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Arabidopsis thaliana  
 US-08-718-270A-10

Query Match 44.8%; Score 494.5; DB 2; Length 215;  
 Best Local Similarity 46.9%; Pred. No. 9.2e-47;  
 Matches 100; Conservative 40; Mismatches 54; Indels 19; Gaps 4;  
 QY 5 YDVLFRLLIGDSGVGKTCLLCRFTDNEFHSHSTIGVDFKMKTIQVDFGKIKVRIQIWD 64  
 Db 12 YDYLKLLIGDSGVGSKLLRSDSFTTSFTTIGIDFKITIEDGKRIQLQIWD 71  
 QY 65 AGQERYQTITKQYRRAGGIFLVYDISSERSYQHIMKWSVDVYAPGQVQKILGNKAD 124  
 Db 72 AGQER-RTITATYRGANGILLVYDVTDSSFNIRNIRNIEQHSDNVNKLIVGNKAD 130  
 QY 125 -EEOKRVGRQGOOLAKGMDYFETSACTNLIKESFTRTLVLAQHRKELEGLMR 183  
 Db 131 MDESKRVPTAKGQALADEYGIKEFTSACTNLNVEEFTSIG-----RDIQR 179  
 QY 184 ASNELALAE-----LREEGKPEGPANSSKTC 210  
 Db 180 LSDTDSRAEPATIKISQTDQAGAGATQKSAC 212

RESULT 11  
 US-08-531-525-34  
 ; Sequence 34, Application US/08531525  
 ; Patent No. 5840683  
 ; GENERAL INFORMATION:

APPLICANT: Hlavka, Joseph J.  
 APPLICANT: Pincus, Matthew R.  
 APPLICANT: NO. 5840683le, John F.  
 APPLICANT: Abajian, Henry B.  
 APPLICANT: Kende, Andrew S.  
 TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action  
 TITLE OF INVENTION: of P21 Ras  
 NUMBER OF SEQUENCES: 52  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Greenlee and Winner, P.C.  
 STREET: 5370 Manhattan Circle, Suite 201  
 CITY: Boulder  
 STATE: Colorado  
 COUNTRY: US  
 ZIP: 80303  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/531,525  
 FILING DATE: 21-SEP-1995  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ferber, Donna M.  
 REGISTRATION NUMBER: 33,878  
 REFERENCE/DOCKET NUMBER: 37-94  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (303) 499-8080  
 TELEFAX: (303) 499-8089  
 INFORMATION FOR SEQ ID NO: 34:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 194 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Discopyge Ommata  
 US-08-531-525-34  
 Query Match 44.2%; Score 488.5; DB 2; Length 194;  
 Best Local Similarity 55.8%; Pred. No. 3.6e-46;  
 Matches 96; Conservative 41; Mismatches 30; Indels 5; Gaps 4;  
 QY 1 MAKQ-YDVLFRLLIGDSGVGKTCCLCRFTDNEFHSHSTIGVDFKMKTIQVDFGKIKVRI 59  
 Db 1 MAKRTDVLFRLLIGDSGVGKTCVLFRRSDAFNTFTSTIGIDFKITVELHGKIKL 60  
 QY 60 QIWDTAGQERYQTITKQYRRAGGIFLVYDISSERSYQHIMKWSVDVYAPGQVQKILI 119  
 Db 61 QIWDTAGQERFHTT-SYRGANGIMLVYDITNAKSPENISKWLNRIDEHANEDVERMLL 119  
 QY 120 GNKADEQKQVREQQQLAKGMDYFETSACTNLIKESFTRTLVLIQ 171  
 Db 120 GNK-DMEDKRVLLKSGQ--IAEHAIRFFETSAKANINIEKAFLLAEDILQ 168  
 RESULT 12  
 US-08-718-270A-34  
 ; Sequence 34, Application US/08718270A  
 ; Patent No. 5910478  
 ; GENERAL INFORMATION:  
 APPLICANT: Hlavka, Joseph J.  
 APPLICANT: Pincus, Matthew R.  
 APPLICANT: NO. 5910478le, John F.  
 APPLICANT: Abajian, Henry B.  
 APPLICANT: Kende, Andrew S.  
 TITLE OF INVENTION: Peptidomimetics Inhibiting  
 TITLE OF INVENTION: the Oncogenic Action of P21 Ras  
 NUMBER OF SEQUENCES: 52





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OM protein - protein search, using sw model

Run on: January 16, 2003, 04:18:15 ; Search time 77 seconds  
(without alignments)  
54.730 Million cell updates/sec

Title: US-09-817-198A-2

Perfect score: 1105

Sequence: 1 MAKQYDVLFRLLIGDVG.....LEEEGKPEGPANSSKTWC 212

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 120991 seqs, 19878514 residues

Total number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA.\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pap.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pap.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pap.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pap.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pap.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pap.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pap.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pap.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pap.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pap.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pap.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pap.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pap.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1105	100.0	212	US-09-817-198A-2	Sequence 2, Appli
2	1105	100.0	401	US-09-764-868-701	Sequence 701, App
3	1092	98.8	218	US-09-817-198A-5	Sequence 5, Appli
4	1077	97.5	212	US-09-817-198A-4	Sequence 4, Appli
5	832	75.3	188	US-09-764-868-1120	Sequence 1120, Ap
6	532	48.1	246	US-09-925-302-534	Sequence 534, App
7	530.5	48.0	218	US-09-925-300-1571	Sequence 1571, Ap
8	528.5	47.8	207	US-09-794-257-8	Sequence 8, Appli
9	512	46.3	190	US-09-822-860-5	Sequence 5, Appli
10	497	45.0	162	US-09-834-765-766	Sequence 766, App
11	478.5	43.3	201	US-09-967-736-3	Sequence 3, Appli
12	469	42.4	201	US-09-967-736-8	Sequence 8, Appli
13	467	42.3	222	US-09-820-003A-4	Sequence 4, Appli
14	434.5	39.3	198	US-09-794-257-16	Sequence 16, Appli
15	434.5	39.3	198	US-09-945-173-5	Sequence 5, Appli
16	434.5	39.3	198	US-09-972-529-4	Sequence 4, Appli
17	430	38.9	223	US-09-817-199A-4	Sequence 4, Appli
18	429	38.8	223	US-09-817-199A-2	Sequence 2, Appli
19	427	38.6	226	US-09-764-868-684	Sequence 684, App

20	426	38.6	222	9	US-09-764-868-1106	Sequence 1106, Ap
21	416	37.6	191	10	US-09-794-257-14	Sequence 14, Appl
22	416	37.6	191	12	US-10-051-986-3	Sequence 3, Appli
23	412.5	37.3	212	10	US-09-350-874-67	Sequence 67, Appl
24	399	36.1	307	9	US-09-764-868-1100	Sequence 1100, Ap
25	399	36.1	312	10	US-09-925-302-783	Sequence 783, App
26	376	34.0	213	10	US-09-794-257-5	Sequence 5, Appli
27	374.5	33.9	222	9	US-09-764-868-1112	Sequence 1112, Ap
28	374.5	33.9	225	9	US-09-764-868-692	Sequence 692, App
29	373	33.8	213	10	US-09-988-974-8	Sequence 8, Appli
30	373	33.8	217	10	US-09-988-974-3	Sequence 3, Appli
31	373	33.8	239	10	US-09-925-301-1077	Sequence 1077, Ap
32	370	33.5	201	10	US-09-822-860-2	Sequence 2, Appli
33	353.5	32.0	624	10	US-09-834-765-5	Sequence 5, Appli
34	353.5	32.0	625	10	US-09-834-765-762	Sequence 762, App
35	353.5	32.0	832	10	US-09-834-765-2	Sequence 2, Appli
36	351	31.8	168	10	US-09-834-765-765	Sequence 765, App
37	343	31.0	161	10	US-09-834-765-763	Sequence 763, App
38	339	30.7	208	9	US-10-108-605-45	Sequence 45, Appl
39	338.5	30.6	216	10	US-09-945-173-10	Sequence 10, Appl
40	338.5	30.6	217	10	US-09-925-300-1364	Sequence 1364, Ap
41	323.5	29.3	211	12	US-10-051-986-6	Sequence 6, Appli
42	321	29.0	173	10	US-09-820-003A-2	Sequence 2, Appli
43	320	29.0	259	12	US-10-051-986-1	Sequence 1, Appli
44	320	29.0	260	12	US-10-051-986-4	Sequence 4, Appli
45	320	29.0	287	9	US-09-764-868-700	Sequence 700, App

ALIGNMENTS

RESULT 1

US-09-817-198A-2

; Sequence 2, Application US/09817198A

; Patent No. US20020146758A1

; GENERAL INFORMATION:

; APPLICANT: YE, Jane et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; TITLE OF INVENTION: PROTEINS, AND USES THEREOF

; FILE REFERENCE: CL001188

; CURRENT APPLICATION NUMBER: US/09/817,198A

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 212

; TYPE: PRT

; ORGANISM: Human

US-09-817-198A-2

Query Match	100.0%;	Score 1105;	DB 10;	Length 212;
Best Local Similarity	100.0%;	Pred. No. 1e-97;		
Matches 212;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MAKQYDVLFRLLIGDVGKTCLLCRFTDNEFHSSHSITIGVDFKMKTTIEVDGKVRIO	60	
Db	1	MAKQYDVLFRLLIGDVGKTCLLCRFTDNEFHSSHSITIGVDFKMKTTIEVDGKVRIO	60	
QY	61	IWDTAGERYQTITKQYRRAOGIFLVYDISSERSYQHIMKWSDVDVEYAPEGVQKILIG	120	
Db	61	IWDTAGERYQTITKQYRRAOGIFLVYDISSERSYQHIMKWSDVDVEYAPEGVQKILIG	120	
QY	121	NKADEQKROVGREQOQLAKEYGMDFYETSACTNLNIKESFTRLTLVLQAHKKEGLE	180	
Db	121	NKADEQKROVGREQOQLAKEYGMDFYETSACTNLNIKESFTRLTLVLQAHKKEGLE	180	
QY	181	RMASNELALAELEEEGKPEGPANSSKTWC	212	
Db	181	RMASNELALAELEEEGKPEGPANSSKTWC	212	
RESULT 2				



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; LOCATION: (161)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (164)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (188)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-868-1120

Query Match          75.3%; Score 832; DB 9; Length 188;
Best Local Similarity 97.6%; Pred. No. 6.9e-72;
Matches 160; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MAKQYDVLFRLLLLIGDSGVGKTCLLCRFTDNEFHSSHSHTIGVDFKMKTTIEVDGKVRQ 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 24 MAKQYDVLFRLLLLIGDSGVGKTCLLCRFTDNEFHSSHSHTIGVDFKMKTTIEVDGKVRQ 83
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 61 IWDTAGQERYOTITKQYRRAGGIFLVYDISSERSYOHIMKWSDVDEYAPGQKILIG 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 84 IWDTAGQERYOTITKQYRRAGGIFLVYDISSERSYOHIMKWSDVDEYAPGQKILIG 143
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 121 NKADEQKRVGREGQOOLAKEYGMDFYETSACTNLNIKESFTR 164
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 144 NKADEQKRVGREGQOOLAKEYGMDFYETSACTNLNIKESFTR 187
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 6
US-09-925-302-534
; Sequence 534, Application US/09925302
; Patent No. US20020044941A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 534
; LENGTH: 246
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-302-534

Query Match          48.1%; Score 532; DB 10; Length 246;
Best Local Similarity 47.6%; Pred. No. 2.9e-43;
Matches 100; Conservative 49; Mismatches 43; Indels 18; Gaps 3;

Qy 1 MAKQYDVLFRLLLLIGDSGVGKTCLLCRFTDNEFHSSHSHTIGVDFKMKTTIEVDGKVRQ 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 44 MAKAYDHLFKLLLLIGDSGVGKTCLLIRFAEDNFNTVISTIGIDFKIRTVDIEGKKIKLQ 103
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 61 IWDTAGQERYOTITKQYRRAGGIFLVYDISSERSYOHIMKWSDVDEYAPGQKILIG 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 104 VWDTAGQERFTITAYIRGAMGILYDITDEKSFENIQNMWKSIRENASAGVERLLLG 163
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 121 NKADEQKRVGREGQOOLAKEYGMDFYETSACTNLNIKESFTRTLTLVLAQHRKELEGL 180
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 164 NKCDMEAKRVKQEQADKLAREHGIRFFETSAKSMNVDEAFSSLDIL-----LKSG 217
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 181 RMRASNELALAELEEKGKPGPANSKTC 210
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 218 GRRSGN-----GNKP--PSTDLKTC 235
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RESULT 7
US-09-925-300-1571
; Sequence 1571, Application US/09925300
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; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben,
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1571
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-300-1571

Query Match          48.0%; Score 530.5; DB 10; Length 218;
Best Local Similarity 55.8%; Pred. No. 3.5e-43;
Matches 96; Conservative 46; Mismatches 29; Indels 1; Gaps 1;

Qy 1 MAKQ-YDVLFRLLLLIGDSGVGKTCLLCRFTDNEFHSSHSHTIGVDFKMKTTIEVDGKVRQ 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 19 MAKKTYDLLFKLLLLIGDSGVGKTCVLFRRSDDAENFTFISTIGIDFKIKTVELQGGKKIKL 78
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 60 QIWDTAGQERYOTITKQYRRAGGIFLVYDISSERSYOHIMKWSDVDEYAPGQKILIG 119
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 79 QIWDTAGQERFTITAYIRGAMGILYDITNGKSFENISKLRNIDEHANEDVERMLL 138
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 120 GNKADEQKRVGREGQOOLAKEYGMDFYETSACTNLNIKESFTRTLTLVLAQ 171
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 139 GNKCDMDKRVVPKGEQIAREHGIRFFETSARANINIEKAFUFLAEDILR 190
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 8
US-09-794-257-8
; Sequence 8, Application US/09794257
; Patent No. US20020009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1a1
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 207
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-794-257-8

Query Match          47.8%; Score 528.5; DB 10; Length 207;
Best Local Similarity 54.0%; Pred. No. 5e-43;
Matches 95; Conservative 47; Mismatches 33; Indels 1; Gaps 1;

Qy 1 MAKQYDVLFRLLLLIGDSGVGKTCLLCRFTDNEFHSSHSHTIGVDFKMKTTIEVDGKVRQ 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 MAKTYDVLFRLLLLIGDSGVGKTCVLFRRSDAENFTFISTIGIDFKIKTVELQGGKKIKLQ 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 61 IWDTAGQERYOTITKQYRRAGGIFLVYDISSERSYOHIMKWSDVDEYAPGQKILIG 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 IWDTAGQERFTITAYIRGAMGILYDITNEKSFENIKLRNIDEHANEDVERMLL 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 121 NKADEQKRVGREGQOOLAKEYGMDFYETSACTNLNIKESFTRTLTLVLAQHRK 175
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 NKCDMDKRVGREGQOOLAKEYGMDFYETSACTNLNIKESFTRTLTLVLAQHRK 176
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QY 121 NKADEOKROVGRGQOOLAKKEYGMDPYETSACTNLNIKESFTRLTLVLAHRKELEGL 180  
Db 121 NKSLTTKKVYDNTTAKFEADSLGIPLETSAKNATVQAF-----MTWAAEIKKRMGP 175  
QY 181 RMRASNELALAELEEBEGKPEG 202  
Db 176 GAASGGERPNLKIDTVPKPAK 197

RESULT 12

US-09-967-736-8

; Sequence 8, Application US/09967736

; Patent No. US20020103340A1

; GENERAL INFORMATION:

; APPLICANT: Hillman, Jennifer L.

; Lal, Preeti

; Corley, Neil C.

; Shah, Purvi

; TITLE OF INVENTION: RAB PROTEINS

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Dr.

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/967,736

; FILING DATE: 28-Sep-2001

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/154,602

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0367 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-855-0555

; TELEFAX: 415-845-4166

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 201 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: GenBank

; CLONE: 57006

; SEQUENCE DESCRIPTION: SEQ ID NO: 8:

US-09-967-736-8

Query Match 42.4%; Score 469; DB 10; Length 201;

Best Local Similarity 51.2%; Pred. No. 2.1e-37;

Matches 83; Conservative 36; Mismatches 43; Indels 0; Gaps 0;

QY 1 MAKOYDVLFRLLIGDSGVGKTCLLCRFTDNEFHSSHISTIGVDFKMKTIETVDGKVRIO 60

Db 1 MNPEYDYLKLLIGDSGVGKSCLLLRFDADTYTSTIGVDFKIRTELGGTKIKLQ 60

QY 61 IWDTAGQERTITKOYRRAGQIFLVYDISERSYOHIMKWSDVDEYAPEGVOKILIG 120

Db 61 IWDTAGQERTITSSYRGAGHIIIVYDVTQESYANVKQWLQEIYDRIYASENVNKLIVG 120

QY 121 NKADEOKROVGRGQOOLAKKEYGMDPYETSACTNLNIKESF 162

Db 121 NKSLTTKKVYDNTTAKFEADSLGVPFLETSAKNATVQAF 162

RESULT 13

US-09-820-003A-4

; Sequence 4, Application US/09820003A

; Patent No. US20020142382A1

; GENERAL INFORMATION:

; APPLICANT: MERKULOV, Gennady et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; TITLE OF INVENTION: PROTEINS, AND USES THEREOF

; FILE REFERENCE: CL001196

; CURRENT APPLICATION NUMBER: US/09/820,003A

; CURRENT FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 39

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 222

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-820-003A-4

Query Match 42.3%; Score 467; DB 10; Length 222;

Best Local Similarity 51.9%; Pred. No. 3.8e-37;

Matches 84; Conservative 34; Mismatches 44; Indels 0; Gaps 0;

QY 1 MAKOYDVLFRLLIGDSGVGKTCLLCRFTDNEFHSSHISTIGVDFKMKTIETVDGKVRIO 60

Db 21 MNPEYDYLKLLIGDSGVGKSCLLLRFDADTYTSTIGVDFKIRTELGGTKIKLQ 80

QY 61 IWDTAGQERTITKOYRRAGQIFLVYDISERSYOHIMKWSDVDEYAPEGVOKILIG 120

Db 81 IWDTAGQERTITSSYRGAGHIIIVYDVTQESFNNVKQWLQEIYDRIYASENVNKLIVG 140

QY 121 NKADEOKROVGRGQOOLAKKEYGMDPYETSACTNLNIKESF 162

Db 141 NKCDLTTKKVYDNTTAKFEADSLGIPLETSAKNATVQESF 182

RESULT 14

US-09-794-257-16

; Sequence 16, Application US/09794257

; Patent No. US20020009804A1

; GENERAL INFORMATION:

; APPLICANT: Meyers, Rachel

; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1e1

; FILE REFERENCE: Human G-Proteins

; CURRENT APPLICATION NUMBER: US/09/794,257

; CURRENT FILING DATE: 2001-02-27

; PRIOR APPLICATION NUMBER: 60/185,606

; PRIOR FILING DATE: 2000-02-29

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 16

; LENGTH: 198

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Pfam accession number PF00071

US-09-794-257-16

Query Match 39.3%; Score 434.5; DB 10; Length 198;

Best Local Similarity 50.9%; Pred. No. 3.9e-34;

Matches 89; Conservative 30; Mismatches 43; Indels 13; Gaps 3;

QY 10 RLLIGDSGVGKTCLLCRFTDNEFHSSHISTIGVDFKMKTIETVDGKVRIOIWDTAGQER 69

Db 1 KLVIGDSGVGKSCLLLRFTDNKFVEEYIPTIGVDFTKTVEVDGKTVKLIQIWDTAGQER 60

QY 70 YOTITKOYRRAGQIFLVYDISERSYOHIMKWSDVDEYA--PEGVOKILIGNKAD--- 124

Db 61 FRALRPAYRGAGQFLIVYDITSRDSFENVKWLEELRLHADKDNENPVLVGNKCQDLE 120



GenCore version 5.1.3  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: January 16, 2003, 04:19:45 ; Search time 47 seconds  
(without alignments)  
1383.308 Million cell updates/sec

Title: US-09-817-198A-2

Perfect score: 1105

Sequence: 1 MAKQYDVLFRLLIGDSGVG.....LEEEGKPEGPANSSKTCWC 212

Scoring table:

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS-human40.cdi  
-LIST=45 -DOCALIGN=200 -THR\_SCORE=pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09817198.@CGN\_1.1.17 -runat\_13012003\_120050\_22010 -NCPU=6 -ICPU=3  
-NO\_XLPXY -NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -LONGLOG -DEV\_TIMEOUT=120  
-WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7  
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued\_Patents\_NA.\*  
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6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	478.5	43.3	925	2	US-08-916-901-4
2	478.5	43.3	925	4	US-09-154-602-4
3	437.5	39.6	1340	2	US-08-824-873-2
4	437.5	39.6	1340	3	US-09-198-184-2
5	429	38.8	875	4	US-09-075-454-10
6	429	38.8	2612	4	US-09-484-970B-142
7	419	37.9	639	4	US-09-399-913-66
8	411.5	37.2	970	3	US-08-888-077A-28
9	373	33.8	847	2	US-08-773-423-4
10	343	31.0	890	3	US-08-741-411-4
11	340.5	30.8	803	4	US-09-075-454-13
12	321.5	29.1	1407	4	US-09-493-914-1

13	320	29.0	1172	4	US-09-075-454-8	Sequence 8, Appli
14	320	29.0	1533	4	US-09-075-454-11	Sequence 11, Appl
15	313	28.3	1255	2	US-08-766-551-6	Sequence 6, Appli
16	297	26.9	1175	2	US-08-773-423-6	Sequence 6, Appli
17	282	25.5	848	3	US-08-741-411-2	Sequence 2, Appli
18	274.5	24.8	1749	4	US-09-149-476-54	Sequence 54, Appl
19	271.5	24.6	820	3	US-08-741-411-6	Sequence 6, Appli
20	262	23.7	615	5	PCT-US95-06420-5	Sequence 5, Appli
21	262	23.7	615	5	US-08-247-946A-5	Sequence 5, Appli
22	260	23.5	985	4	US-08-842-306B-1	Sequence 1, Appli
23	260	23.5	985	4	US-08-838-973B-1	Sequence 1, Appli
24	260	23.5	985	4	US-08-771-212A-1	Sequence 1, Appli
25	259.5	23.5	3198	4	US-08-842-306B-48	Sequence 48, Appl
26	259.5	23.5	3198	4	US-08-838-973B-48	Sequence 48, Appl
27	255	23.1	600	3	US-09-078-317-1	Sequence 1, Appli
28	255	23.1	600	4	US-09-454-818-1	Sequence 1, Appli
29	255	23.1	2309	3	US-09-078-317-3	Sequence 3, Appli
30	255	23.1	2309	4	US-09-454-818-3	Sequence 3, Appli
31	249.5	22.6	624	4	US-09-415-522-1	Sequence 1, Appli
32	249.5	22.6	5197	4	US-09-293-170-6	Sequence 6, Appli
33	246	22.3	1074	2	US-09-156-424-1	Sequence 1, Appli
34	246	22.3	1074	4	US-09-387-341-1	Sequence 1, Appli
35	245.5	22.2	603	4	US-09-325-932A-29	Sequence 29, Appl
36	245.5	22.2	932	4	US-09-325-932A-28	Sequence 28, Appl
37	245.5	22.2	2436	1	US-08-306-691B-16	Sequence 16, Appl
38	244.5	22.1	574	2	US-08-429-964-83	Sequence 83, Appl
39	239	21.6	607	2	US-08-429-964-85	Sequence 85, Appl
40	236	21.4	1058	3	US-09-156-807-1	Sequence 1, Appli
41	236	21.4	5775	1	US-08-306-691B-15	Sequence 15, Appl
42	236	21.4	5775	5	PCT-US93-06251-29	Sequence 29, Appl
43	232	21.0	1284	2	US-09-161-015-1	Sequence 1, Appli
44	232	21.0	1284	4	US-09-387-341-150	Sequence 150, App
45	230.5	20.9	1166	5	PCT-US96-12129B-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-08-916-901-4  
; Sequence 4, Application US/08916901  
; Patent No. 5892012  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: RAB PROTEINS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/916,901  
; FILING DATE: Filed Herewith  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0367 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166





APPLICANT: Lal, Preeti  
 APPLICANT: Guegler, Karl J.  
 APPLICANT: Corley, Neil C.  
 APPLICANT: Patterson, Chandra  
 APPLICANT: Batra, Sajeev  
 APPLICANT: Baughn, Mariah R.  
 TITLE OF INVENTION: RAS PROTEINS  
 NUMBER OF SEQUENCES: 14  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: US  
 ZIP: 94304

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: Word Perfect 6.1/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/075,454  
FILING DATE: Herewith

PRIOR APPLICATION DATA:

FILING DATE: DECEMBER 12, 1996  
 ATTORNEY/AGENT INFORMATION:  
   NAME: Cerrone, Michael C.  
   REGISTRATION NUMBER: 39, 132  
   REFERENCE/DOCKET NUMBER: PF-0168-1 CIP  
 TELECOMMUNICATION INFORMATION:  
   TELEPHONE: 650-855-0555  
   TELEFAX: 650-845-4166  
   TELEX:  
 INFORMATION FOR SEQ ID NO: 10:  
   SEQUENCE CHARACTERISTICS:  
     LENGTH: 875 base pairs  
     TYPE: nucleic acid  
     STRANDEDNESS: single  
     TOPOLOGY: linear  
 IMMEDIATE SOURCE:  
   LIBRARY: UCMCL5T01  
   CLONE: 152B559  
   9-075-454-10

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.. No.:	429.00	Matches:	82
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ent Similarity:	44.57%	Mismatches:	46
Local Similarity:	38.82%	Indels:	12
y Match:	4	Gaps:	3

9-817-198A-2 (1-212) x US-09-075-454-10 (1-875)

5 TyrAspValLeuPheArgLeuLeuLeuIleGlyAspSerGlyValGlyLysThrCysLeu 24  
|||||::: |||||::: |||||::: |||||::: |||||::: |||||::: |||||:::  
72 TAGCACTCACGGGAAGGTGATGTTCTGGGAGACACAGCGTCGCGAAACATGTTTC 131  
::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |:::  
25 LeuCysArgPheThrAspAsnGluPheHisSer---SerHisIleSerThrIleGlyVal 43  
|||::: |||||::: |||||::: |||||::: |||||::: |||||::: |||||:::  
132 CTGATCCAATTCAAAGACGGGGCCCTTCTGTCGGAACTTCATAGGCCACCGTCGGGATA 191  
::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |:::  
44 AspPheLysMetLysThrIleGluValAspGlyIleLysValArgIleGlnIleTrpAsp 63  
|||::: |||||::: |||||::: |||||::: |||||::: |||||::: |||||:::  
192 GACTTCAGGAACAAGTGCTGACTGTGGATGCGTGCAGAGTGAAGCTGCAGATCTGGCAC 251  
::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |:::  
64 ThrAlaGlyClnGluArgTyrGlnThrIleThrLysGlnTyrTyrArgArgAlaGlnGly 83  
|||::: |||||::: |||||::: |||||::: |||||::: |||||::: |||||:::  
252 ACCGCTGGGCAGAACGGTTCCGAAGCGGTCACCCATGCTTATTACAGAGATGCTCAGGCC 311  
::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |:::  
84 IlePheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMetLysTrpVal 103

RESULT 5  
US-09-075-454-10  
; Sequence 10, Application US/09075454  
; Patent No. 6391580  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; ADDY: 3300 V TCM

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Db 312 TTGCTTCTGCTGATGACATCACCAAAATCTTCTTCGACACATCATGGGCGCTGCTC 371
QY 104 SerAspValAspGluTyrAlaProGluGluGlnLysLeuIleGlyAsnLysAla 123
Db 372 ACTGAGATTTCATGATGATGCCAGAGGAGCGTGGTGTATGCTGTAGGCAACAAGCG 431
QY 124 AspGluGluGlnLysArgGlnValGlyArgGluGlnGlnGlnLysGluTyr 143
Db 432 GATATGACGACGAGCAAGAGTATCCGTTCCGAGACGAGAGACCTTGGCCAGGGAGTAC 491
QY 144 GlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnLysGluSerPheThr 163
Db 492 GGTGTTCCCTTCTCGGAGACGAGCGCAAGACTGGCATGAATGTG----- 536
QY 164 ArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluGluGluGluMetArg 183
Db 537 -----GAGTTAGGCTTCTGGCCATGCCAAGGAA-----CTGAATACCGG 578
QY 184 AlaSerAsnGlu 187
Db 579 GCCGGGCATCAG 590
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## RESULT 6

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US-09-484-970B-142
; Sequence 142, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Voikmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 142
; LENGTH: 2612
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1
US-09-484-970B-142
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Alignment Scores:
Pred. No.: 2,08e-44 Length: 2612
Score: 429.00 Matches: 82
Percent Similarity: 68.48% Conservative: 44
Best Local Similarity: 44.57% Mismatches: 46
Query Match: 38.82% Indels: 12
DB: 4 Gaps: 3
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## US-09-817-198A-2 (1-212) x US-09-484-970B-142 (1-2612)

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QY 5 TyrAspValLeuPheArgLeuLeuIleGlyAspSerGlyValGlyLysThrCysLeu 24
Db 91 TAGCACTCAGCGGCAAGGTGATGCTTCTGGGACACACAGCGTCGCCAAACATGTTC 150
QY 25 LeuCysArgPheThrAspAsnGluPheHisSer---SerHisLeSerThrIleGlyVal 43
Db 151 CTGATCCAATTCAAAGACGGGGCTTCTGTCGGAACCTTCATAGCCACCGTCGGCATA 210
QY 44 AspPheLysMetLysThrIleGluValAspGlyLysValArgIleGlnIleTrpAsp 63
Db 211 GACTTCAGGAACAAGGTGGTGAAGTGGGTGAGTGAAGTGAAGTGAAGTGAAGTGAAG 270
QY 64 ThrAlaGluGlnGluArgTyrGlnThrIleThrLysGlnTyrArgAlaGlnGly 83
Db 271 ACCGCTGGGAGAACGGTTCGGAAGGCTCACCCTGCTTATTACAGATGATGCTCAGGC 330
QY 84 IlePheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMetLysTrpVal 103
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Db 331 TTGCTTCTGCTGATGACATCACCAAAATCTTCTTCGACACATCATGGGCGCTGCTC 390
QY 104 SerAspValAspGluTyrAlaProGluGluGlnLysLeuIleGlyAsnLysAla 123
Db 391 ACTGAGATTTCATGATGATGCCAGAGGAGCGTGGTGTATGCTGTAGGCAACAAGCG 450
QY 124 AspGluGluGlnLysArgGlnValGlyArgGluGlnGlnGlnLysGluTyr 143
Db 451 GATATGACGACGAGCAAGAGTATCCGTTCCGAGACGAGAGACCTTGGCCAGGGAGTAC 510
QY 144 GlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnLysGluSerPheThr 163
Db 511 GGTGTTCCCTTCTCGGAGACGAGCGCAAGACTGGCATGAATGTG----- 555
QY 164 ArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluGluGluGluMetArg 183
Db 556 -----GAGTTAGGCTTCTGGCCATGCCAAGGAA-----CTGAATACCGG 597
QY 184 AlaSerAsnGlu 187
Db 598 GCCGGGCATCAG 609
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## RESULT 7

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US-09-399-913-66
; Sequence 66, Application US/09399913
; Patent No. 6361971
; GENERAL INFORMATION:
; APPLICANT: Rhodes, Kenneth
; APPLICANT: Betty, Maria
; APPLICANT: Ling, Hwai-Ping
; APPLICANT: An, Wenqian
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: MNI-070CP2
; CURRENT APPLICATION NUMBER: US/09/399,913
; CURRENT FILING DATE: 1999-09-21
; EARLIER APPLICATION NUMBER: USSN 60/110,277
; EARLIER FILING DATE: 1998-11-30
; EARLIER APPLICATION NUMBER: USSN 60/110,033
; EARLIER FILING DATE: 1998-11-25
; EARLIER APPLICATION NUMBER: USSN 60/109,333
; EARLIER FILING DATE: 1998-11-20
; EARLIER APPLICATION NUMBER: USSN 09/298,731
; EARLIER FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: USSN 09/350,614
; EARLIER FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: USSN 09/350,874
; EARLIER FILING DATE: 1999-07-09
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
; LENGTH: 639
; TYPE: DNA
; ORGANISM: Rattus sp.
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(636)
US-09-399-913-66
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Alignment Scores:
Pred. No.: 4,8e-44 Length: 639
Score: 419.00 Matches: 85
Percent Similarity: 64.59% Conservative: 50
Best Local Similarity: 40.67% Mismatches: 65
Query Match: 37.92% Indels: 9
DB: 4 Gaps: 2
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## US-09-817-198A-2 (1-212) x US-09-399-913-66 (1-639)

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QY 5 TyrAspValLeuPheArgLeuLeuIleGlyAspSerGlyValGlyLysThrCysLeu 24
Db 7 TAGCGCTATCTCTCAAGTACATCATCGGCGACACAGGTGTGTGTAATCGTGCTTA 66
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Qy 142 uTyrGlyMetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIleLysGluSerPh 162
Db 486 GTATGGGCAATTATCTGTGTAACAAGTGCACAAAGATGGTTCTTAACATAGTGGAGGTGT 545
Qy 162 eThrArgLeuThrGluLeuValLeuGlnAlaHisArgLysGlu----- 176
Db 546 TCTGCACCTTGTCTGCAGAACTGAAAAAGAGAAGAACTGACAAAGATGACAGACAGATCCATTAC 605
Qy 177 ----LeuGluGluLeuArgMetArgAlaSerAsnGluLeu 188
Db 606 CAATCTAACCGGACCAATTCCAAAAAGTCACCACAGATG 645

RESULT 12
US-09-493-914-1
; Sequence 1, Application US/09493914
; Patent No. 6448073
; GENERAL INFORMATION:
; APPLICANT: Jger, Dick
; APPLICANT: Stockert, Elizabeth
; APPLICANT: Jger, Elke
; APPLICANT: Gure, Ali
; APPLICANT: Scanlan, Matthew J.
; APPLICANT: Knuth, Alexander
; APPLICANT: Old, Lloyd J.
; APPLICANT: Chen, Yao-Tseng
; TITLE OF INVENTION: Cancer Associated Antigen Encoding Nucleic Acid Molecules
; FILE REFERENCE: LUD-5638
; CURRENT APPLICATION NUMBER: US/09/493,914
; CURRENT FILING DATE: 2000-01-28
; NUMBER OF SEQ ID NOS: 5
; SEQ ID NO 1
; LENGTH: 1407
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: Unsure
; LOCATION: 1165 .. 1390
US-09-493-914-1

Alignment Scores:
Pred. No.: 3,5e-31 Length: 1407
Score: 321.50 Matches: 83
Percent Similarity: 54.19% Conservative: 40
Best Local Similarity: 36.56% Mismatches: 66
Query Match: 29.10% Indels: 38
DB: 4 Gaps: 10

US-09-817-198A-2 (1-212) x US-09-493-914-1 (1-1407)

Qy 8 LeuPheArgLeuLeuIleGlyAspSerGlyValGlyLysThrCysLeuLeuCysArg 27
Db 72 CTGTACAAAGTTGCTGTGGTGGCGACTGGCGTGGGAAGACCATGATCATCAACGCGC 131
Qy 28 PheThrAspAsnGluPheHisSerSerHisIleSerThrIleGlyValAspPheLysMet 47
Db 132 TACGTGCACCAAGACTTCTCTCCATACCGGGCCACATCGCGTGGACTCGCGCTC 191
Qy 48 LysThrIleGluValAsp---GlyIleLysValArgIleGlnIleTrpAspThrAlaGly 66
Db 192 AAGGTGCTCCACTGGGACCGGAGAGACTGTGTGGCGCTGCGAGCTCTGGGATATCGCAGGT 251
Qy 67 GlnGluArgTyrGlnThrIleThrLysGlnTyrTyrArgArgAlaGlnGlyIlePheLeu 86
Db 252 CAAGAAAGATTGGAACATGACAGAGGTCTATTACCAGAAAGCTATGGGTGCATTATT 311
Qy 87 ValTyrAspIleSerGluArgSerTyrGlnHisIleMetLysTrpValSerAspVal 106
Db 312 GTCTTCATGTCCACGACCGACGACATTTGAACCATGGCCAAAGTGGAAAAATGATTG 371
Qy 107 AspGlu-----TyrAlaProGluGly-----ValGlnLysIleLeuIleGlyAsnLys 122
Db 372 GACTCCAAGTAAAGTCTCCCTAATGGCAACCGGCTTTTCAGTGGTGTGTTGTTGGCCACAAA 431

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Qy 123 AlaAspGluGluGlnLysAlrGlnValGlyArgGluGlnGly-----GluGlnLeu 139
Db 432 TGTGAC-----CAGGGGAAGGATGCTCATGAACAATGGCCTCAAGATGGACCATTC 485
Qy 140 AlaLysGluTyrGly---MetAspPheTyrGluThrSerAlaCysThrAsnLeuAsnIle 158
Db 486 TGCAAGGAGCAGCGGTTTCGTAGGATGTTTGAACACATCAGCAAGGAAAAATATAACATT 545
Qy 159 LysGluSerPheThrArgLeuThrGluLeuValLeuGlnAlaHisArgLysGluLeuGlu 178
Db 546 GATGAAGCCTCCAGATCGCTGGTGAACACATCACTT----- 581
Qy 179 GlyLeuArgMetArgAlaSerAsnGluLeuAlaLeuAlaGlu---LeuGluGluGluGlu 197
Db 582 -----GCAATGAGTGTGCACCTATGAGTCTATTGAGCCGAGGATC 623
Qy 198 GlyLysPro-----GluGlyProAla-AsnSerSe 207
Db 624 GTGAAGCCCATCTCATCAATCAACCAAGGTTGCCAGCTGCTGTGCTGTGCCAAATCTCTAG 683
Qy 207 rLys---ThrCysTrpCys 212
Db 684 TAGGCACCTTTGTGTGTGT 702

RESULT 13
US-09-075-454-8
; Sequence 8, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1172 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

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Searched: 393868 seqs, 222934149 residues

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Maximum DB seq length: 2000000000

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Maximum Match 100%

Listing first 45 summaries

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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications.NA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1105	100.0	3257	10	US-09-817-198A-1
3	832	75.3	566	9	US-09-764-868-507
4	534.5	48.4	1274	10	US-09-925-302-91

5	530.5	48.0	1537	10	US-09-925-300-631	Sequence 631, App	
6	528.5	47.8	624	10	US-09-794-257-9	Sequence 9, App1	
7	528.5	47.8	1161	10	US-09-794-257-7	Sequence 7, App1	
8	528.5	47.8	2497	10	US-09-834-975-879	Sequence 879, App	
9	528.5	47.8	2497	10	US-09-834-975-885	Sequence 885, App	
10	528.5	47.8	2497	10	US-09-834-975-894	Sequence 894, App	
11	528.5	47.8	2497	10	US-09-834-975-896	Sequence 896, App	
12	519	47.0	651	9	US-09-938-842A-836	Sequence 836, App	
13	478.5	43.3	925	10	US-09-967-736-4	Sequence 4, App1	
14	477.5	43.2	881	10	US-09-770-445-529	Sequence 529, App	
15	468	42.4	609	9	US-09-938-842A-832	Sequence 832, App	
16	448	40.5	585	10	US-09-917-800A-1461	Sequence 1461, Ap	
17	429	38.8	875	12	US-10-051-986-10	Sequence 10, App1	
18	429	38.8	1116	10	US-09-794-257-13	Sequence 13, App1	
19	429	38.8	2674	10	US-09-817-199A-1	Sequence 1, App1	
20	427	38.6	2623	9	US-09-764-868-71	Sequence 71, App1	
21	426	38.6	1316	9	US-09-764-868-493	Sequence 493, App	
22	419	37.9	639	10	US-09-350-874-66	Sequence 66, App1	
23	416	37.6	576	10	US-09-794-257-15	Sequence 15, App1	
c	24	415.5	894	10	US-09-770-445-487	Sequence 487, App	
25	412.5	37.3	538	10	US-09-924-035A-794	Sequence 794, App	
26	411.5	37.2	654	9	US-09-938-842A-2113	Sequence 2113, Ap	
27	410	37.1	1000	9	US-09-764-868-488	Sequence 488, App	
28	406	36.7	896	10	US-09-770-445-478	Sequence 478, App	
29	404.5	36.6	3936	10	US-09-919-172-49	Sequence 49, App1	
c	30	399	36.1	1127	9	US-09-764-868-487	Sequence 487, App
31	399	36.1	3124	10	US-09-925-302-340	Sequence 340, App	
c	32	395	35.7	844	10	US-09-770-445-646	Sequence 646, App
33	391	35.4	1673	9	US-09-954-531-1359	Sequence 1359, Ap	
34	388.5	35.2	4083	10	US-09-817-182-1	Sequence 1, App1	
35	387.5	35.1	654	9	US-09-938-842A-78	Sequence 78, App1	
36	387	35.0	771	10	US-09-728-445-652	Sequence 652, App	
37	384.5	34.8	1042	10	US-09-954-456-563	Sequence 563, App	
38	382.5	34.6	676	10	US-09-770-149-374	Sequence 374, App	
39	381	34.5	645	9	US-09-938-842A-774	Sequence 774, App	
40	381	34.5	900	10	US-09-770-445-469	Sequence 469, App	
41	379	34.3	577	10	US-09-998-598-1231	Sequence 1231, Ap	
42	378.5	34.3	857	10	US-09-917-800A-1426	Sequence 1426, Ap	
43	376	34.0	642	10	US-09-794-257-6	Sequence 6, App1	
44	376	34.0	1023	10	US-09-794-257-4	Sequence 4, App1	
45	374.5	33.9	1089	9	US-09-764-868-79	Sequence 79, App1	

ALIGNMENTS

RESULT 1  
US-09-764-868-88  
; Sequence 88, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 88  
; LENGTH: 2021  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-88

Alignment Scores:  
Pred. No.: 3.4e-129 Length: 2021  
Score: 1105.00 Matches: 212  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-09-817-198A-2 (1-212) x US-09-764-868-88 (1-2021)







```

> FILE REFERENCE: PA101
> CURRENT APPLICATION NUMBER: US/09/925,300
> CURRENT FILING DATE: 2001-08-10
> PRIOR APPLICATION NUMBER: PCT/US00/05988
> PRIOR FILING DATE: 2000-03-08
> PRIOR APPLICATION NUMBER: 60/124,270
> PRIOR FILING DATE: 1999-03-12
> NUMBER OF SEQ ID NOS: 1890
> SOFTWARE: PatentIn ver. 2.0
> SEQ ID NO 631
> LENGTH: 1537
> TYPE: DNA
> ORGANISM: Homo sapiens
> FEATURE:
> NAME/KEY: misc feature
> LOCATION: (5)
> OTHER INFORMATION: n equals a,t,g, or c
> US-09-925-300-631

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Alignment Scores:				
Pred. No.:	3.5e-57	Length:	1537	
Score:	530.50	Matches:	96	
Percent Similarity:	82.56%	Conservative:	46	
Best Local Similarity:	55.81%	Mismatches:	29	
Query Match:	48.01%	Indels:	1	
DB:	10	Gaps:	1	
US-09-817-198A-2 (1-212) x US-09-925-300-631 (1-1537)				
Qy	1	MetAlalysGln---	TyrAspValLeuPheArgLeuLeuLeuLleGlyAspSerGlyVal	19
Dd	533	ATGCCAAGNAGACTACGACCCTGTTC	AAGTGCCTCGGGATTCCGGAGTG	592
Qy	20	GlyIyethrCysLeuLeuCysArgPheThrAspAsnGlupheHisSerSerHisLleSer	39	
Dd	593	GGGAAGACCTGCGCTCTTTTCGTTTTTCGGATGATGCTTC	ATACTACCTTTATTTC	652
Qy	40	ThrlieglyValaspPhelysMetylsThrileGluValaspGlylileLysValArgIle	59	
Dd	653	ACCATAGAATAGACTTC	AAGATCAAAACAGTTGNATTACAAGGAANAGAACCAAGTA	712
Qy	60	GlnlletrpasphrLaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTyrrArg	79	
Dd	713	CAGATATGGGATACAGCAGGCCAGGAGGAGATTTC	CACCATCACCACTCACAACCTCTCTACTACAGA	772
Qy	80	ArgAlagInGlyIlePheLeuValtyraspileserSerGluArqSertYrGlnHIsIle	99	
Dd	773	GGCCCAATGGGTATCATGCTAGTAGTATGATGACATCA	CCAATGGTAAGATTTGGAACATC	832
Qy	100	MetLystrpValSerAspValaspGluTyrAlaProGluGlyValGlnLysIleLeuIle	119	
Dd	833	AGCAAATGGCTTAGMAACATAGATGAGCATGCCAATGAAGATGTGG	AAAAGAAATGTTACTA	892
Qy	120	GlyasnLYsaIaaspGluGlnLynLysArgGlnValGlyArgGluGlnGlynLeu	139	
Dd	893	GGAAACAAGTGTGATATGGACGACAAACAGAGTTGACCTTAAG	AAAAAGGAAGAGACAGATT	952
Qy	140	AlalySGlnUryGlyMetaspPheTyrGluThrSerAlaCysThrAsnLeuAsnilleLys	159	
Dd	953	GCAAGGGAGCATGTGATTAGCTTTT	TGAGACTAGTGCAAAAGCAATATAAAACATCGAA	1012
Qy	160	GluSerPheThrArgLeuThrGluLeuValLeuGln	171	
Dd	1013	AAGCGGTTCCTCAGCTTAGCTGAAGATATCCTTCGA	1048	

RESULT 6  
US 09794-257-9  
; Sender: Application US/09794257  
; Patent No. US20020009804A1  
; GENERAL INFORMATION:  
; APPLICANT: Meyers, Rachel  
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1  
; TITLE OF INVENTION: Human G-Proteins

```

; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 624
; TYPE: DNA
; ORGANISM: homo sapiens
; RS-09-794-257-q

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Alignment Scores:	1.71e-57	Length:	624
Pred. No.:	528.50	Matches:	95
Score:	80.68%	Conservative:	47
Percent Similarity:	80.68%	Mismatches:	33
Best Local Similarity:	53.98%	Indels:	1
Query Match:	47.83%	Gaps:	1
DB:	10		

US-09-817-198A-2 (1-212) X US-09-794-257-9 (1-624)

Qy	1	MetAlaLysGlnTyrAspValLeuPheArgLeuLeuLeuIleGlyAspSerGlyValGly	20
Db	1	ATGCGGAGACGTACGATTATCTCTCAAGCTCCTGCTGATCGGCGACTCGGGGTAGGC	60
Qy	21	LysThrCysLeuLeuCysArgPheThrAspAsnGluPheHisSerHisIleSerThr	40
Db	61	AAGACCTCGCTCTGTTCCTCTCTCAGAGAGCGCTTCAACACCACTTCATCTCCACC	120
Qy	41	IleGlyValAspPheLysMetLysThrIleGluValAspGlyIleLysValargIleGln	60
Db	121	ATCGGAATGATTTAAATTAAGAACGATAGACTAGATGGAAAGAAAATTAAGCTTCAG	180
Qy	61	IleTrpAspThrAlaGlyGlnGluArgTyrGlnThrIleThrLysGlnTyrTrpArgArg	80
Db	181	ATATGGGACACAGCGGTCTAGGAAGAATTCGGAACAACTACGACACCGTACTACAGAGCA	240
Qy	81	AlaGlnGlyIlePheLeuValTyrAspIleSerSerGluArgSerTyrGlnHisIleMet	100
Db	241	GCCATGGSCATTATGCTGGTCTATGACATCACAAATGAAAAATCCCTTGACATATATAA	300
Qy	101	LysTrpValSerAspValAspGluTyrAlaProGluGlyValGlnLysIleLeuIleGly	120
Db	301	AATTGGATCGAAACATTGAAGACGATGCCTCTCCGATGTCGAAAGAATGATCCTGGGT	360
Qy	121	AsnLysAlaAspGluGlnGlnLysArgGlnValGlyArgGlnGlyGlnGlnLeuAla	140
Db	361	AAACAAATGTGATATCAATGACAAAAGACAGTGTCAAAAAGAAAGAGGGGAGAGCTAGCA	420
Qy	141	LysGluTyrGlyMetAspPheTyrGlnThrSerAlaCysThrAsnLeuAsnIleLysGlu	160
Db	421	ATTGACTATGGGATATAAATCTTGAGACAGACGCCAAATCCAGTGCAATGTAGAGAGAG	480
Qy	161	Ser---PheThrArgLeuThrGluLeuValLeuGlnAlaHisArgLys	175
Db	481	GCATTTTTCACCTGACAGAGATATATGACAAACTCAACAGAAAA	528

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RESULT 7
US-09-794-257-7
; Sequence 7, Application US/09794257
; Patent NO. US20020009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, NO.
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ IDS NOS: 16

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1 TITLE OF INVENTION: NOVEL METHOD FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY  
2  
3  
4  
5 TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY  
6  
7  
8  
9 TITLE OF INVENTION: OF HUMAN CANCERS  
10  
11  
12  
13 FILE REFERENCE: MRI-016B  
14

; APPLICANT: Zhu, To

US-09-967-736-4



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